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HYDROLOGIC DATA: 1973

Volume II: NORTHEASTERN CALIFORNIA

DECEMBER 1974

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

JOHN R. TEERINK
Director
Department of Water Resources

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The Resources Agency

Department of Water Resources

BULLETIN No. 130-73

HYDROLOGIC DATA: 1973

Volume II: NORTHEASTERN CALIFORNIA

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HYDROLOGIC DATA AREAL COVERAGE OF VOLUMES

EACH VOLUME CONTAINS

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality Data
- Appendix E: Ground Water Quality Data

THIS VOLUME : 

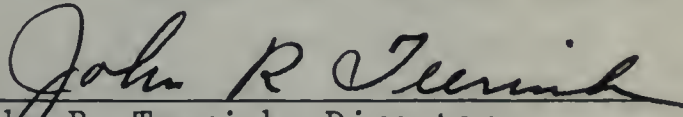


FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy the needs for data on the quality and quantity of water in the State. Bulletin No. 130-73 presents accurate, comprehensive, and timely hydrologic data which provide a more complete knowledge of the factors affecting our environment and are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

Volume II contains data on climate, surface water flow, change of ground water levels, and surface and ground water quality in Northeastern California for the 1972-73 water year. Figures show the location of climatological observation stations and ground water basins; the fluctuation of average ground water level in wells; the location of surface water measurement and surface water quality stations; and hydrographic unit boundaries.


John R. Teerink, Director
Department of Water Resources
The Resources Agency
State of California

METRIC CONVERSION TABLE

<u>English Unit</u>		<u>Equivalent Metric Unit</u>
Inch (in.)	2.54	Centimeters
Foot (ft.)	0.3048	Meter
Mile (mi.)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal.)	3.785	Liters
Acre-foot (acre-ft.)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liter per second
Cubic feet per second (cfs)	1.7	Cubic meters per minute
Degrees Fahrenheit (°F)		Degrees Celsius or Degrees Centigrade (°C) = (°F - 32°) 5/9

WATER QUALITY CONVERSION TABLE

<u>Weight Per Weight</u>	<u>Equivalent Weight Per Volume</u>
Part per million (ppm)	Milligram per liter (mg/l)
Part per billion (ppb)	Microgram per liter (ug/l)
Part per trillion (ppt)	Nanogram per liter (ng/l)
Equivalent per million (epm)	Milliequivalent per liter (me/l)

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State of California
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DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, Jr., Secretary for Resources
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Water Resources Evaluation Section

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Butte County
California Water Service Company
City of Sacramento
City of Stockton

Colusa County
East Bay Municipal Utility District
Glenn County
Lake County
National Weather Service

Pacific Gas and Electric Company
Placer County
Sacramento County
Sacramento Municipal Utility District
San Joaquin County

Solano County
South San Joaquin Irrigation District
South Sutter Water District
Stockton-East Water District
Sutter County

Tehama County
U. S. Army, Corps of Engineers
U. S. Bureau of Reclamation
U. S. Forest Service
U. S. Geological Survey

Yolo County
Yuba County

INTRODUCTION

This bulletin contains data regarding climate, surface water, ground water levels, and surface and ground water quality. The data were collected by the Department of Water Resources and by various organizations cooperating with the Department.

The Department's files contain some data that currently are not being published. Inquiries regarding local data should be directed to the District Offices listed as follows:

Central District
P. O. Box 9137
3251 S Street
Sacramento, CA 95816

San Joaquin District
P. O. Box 2385
3374 East Shields Avenue
Fresno, CA 93723

Northern District
P. O. Box 607
2440 Main Street
Red Bluff, CA 96080

Southern District
P. O. Box 6598
849 South Broadway
Los Angeles, CA 90055

Inquiries regarding statewide data should be directed to the Division Office:

Division of Resources Development
P. O. Box 388
1416 Ninth Street
Sacramento, CA 95802

Federal and local agencies also are maintaining substantial data files. A partial listing follows:

Federal Agencies

U. S. Army, Corps of Engineers
Sacramento District
650 Capitol Mall
Sacramento, CA 95814

U. S. Department of the Interior
Geological Survey
Water Resources Division
2800 Cottage Way
Sacramento, CA 95825

U. S. Department of the Interior
Geological Survey
Water Resources Division
855 Oak Grove Avenue
Menlo Park, CA 94025

U. S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, CA 95825

U. S. Department of the Interior
Geological Survey
Water Resources Division
705 North Plaza Street
Carson City, NV 89701

Local Agencies

East Bay Municipal Utility
District
Mokelumne Area Representative
P. O. Box 61
Lodi, CA 95240

Sacramento Municipal Utility
District
P. O. Box 15830
6201 S Street
Sacramento, CA 95813

Pacific Gas & Electric Company
5555 Florin-Perkins Road
Sacramento, CA 95826

San Joaquin County Flood Control
and Water Conservation District
P. O. Box 1810
Stockton, CA 95201

County of Sacramento
Department of Public Works
Water Resources Division
827-7th Street
Sacramento, CA 95814

Appendix A

CLIMATOLOGICAL DATA

This appendix contains precipitation data for certain climate stations and storage gages for the 1973 water year, October 1, 1972, through September 30, 1973. Additional precipitation data, as well as data concerning air temperature, wind, and evaporation, are available in the National Weather Service's publications "Climatological Data - California"; "Hourly Precipitation Data - California"; and, for particular key stations, "Local Climate Data". These publications can be obtained from:

Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

Other agencies within the area covered by this report have established their own supplemental rain gage networks. Some of these agencies are: California Department of Parks and Recreation; East Bay Municipal Utility District; Pacific Gas and Electric Company; Sacramento County; Sacramento Municipal Utility District; Tehama County Flood Control and Water Conservation District.

Each station in this appendix has been assigned an identification number. The letter and first digit denote the hydrographic unit as shown below. The remaining digits denote the alphabetical sequence of the station. A complete list of stations is contained in Bulletin No. 165, Index of Climatological Stations in California, 1971.

Sacramento River Basin

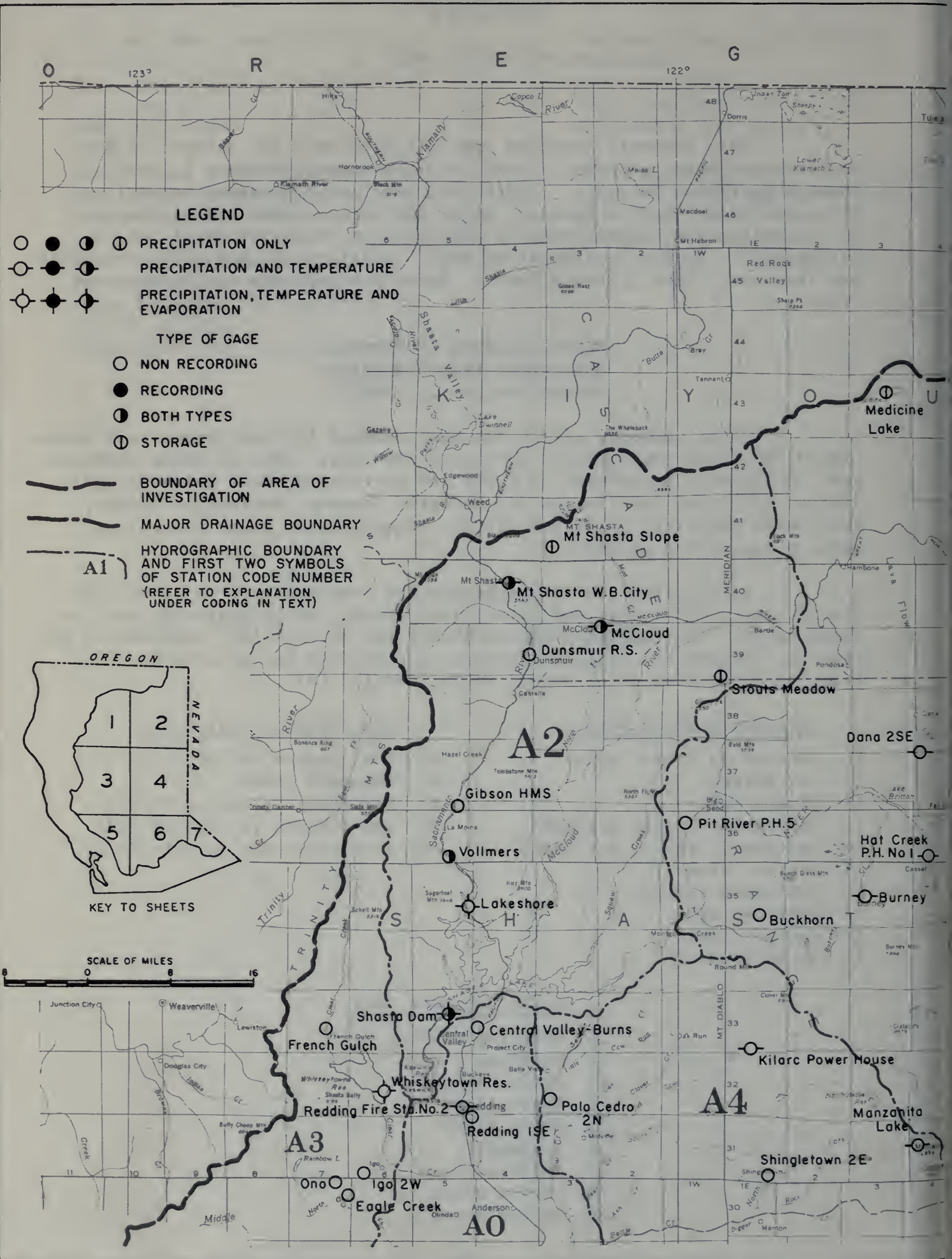
- A0 Sacramento Valley Floor
- A1 Pit River
- A2 Shasta Lake
- A3 Sacramento Valley Westside
- A4 Sacramento Valley Northeast
- A5 Feather River
- A6 Yuba-Bear Rivers
- A7 American River
- A8 Cache Creek
- A9 Putah Creek

San Joaquin River Basin

- B0 San Joaquin Valley Floor
- B1 Cosumnes River
- B2 Mokelumne-Calaveras Rivers
- B8 San Joaquin Valley Westside
- B9 Sacramento-San Joaquin Delta

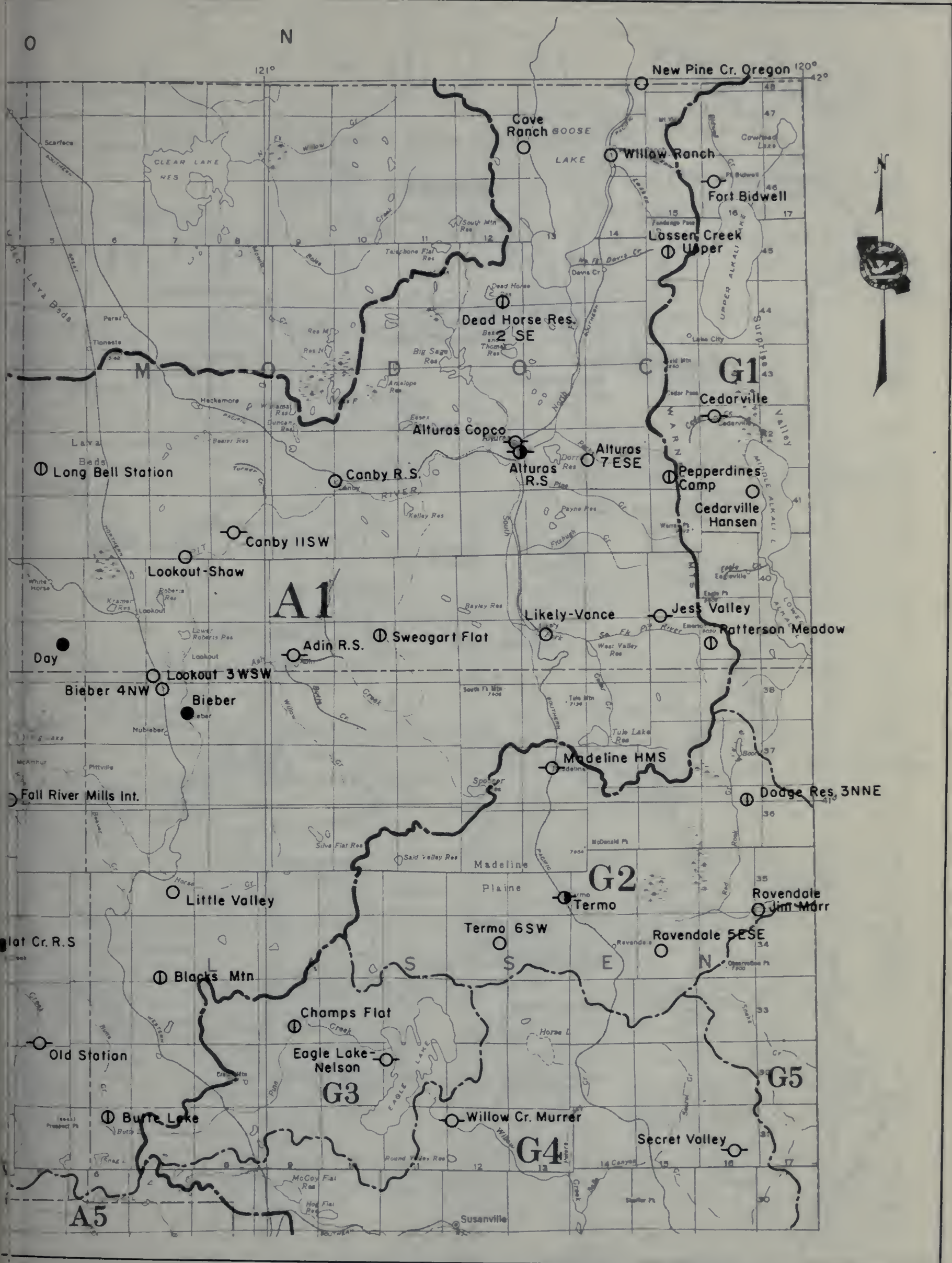
North Lahontan Area

- G1 Surprise Valley
- G2 Madeline Plains
- G3 Eagle Lake
- G4 Susan River
- G5 Smoke River
- G6 Herlong
- G7 Truckee River
- G8 Carson River
- G9 Walker River



CLIMATOLOGICAL OBSERVATION STATIONS

1972 - 73



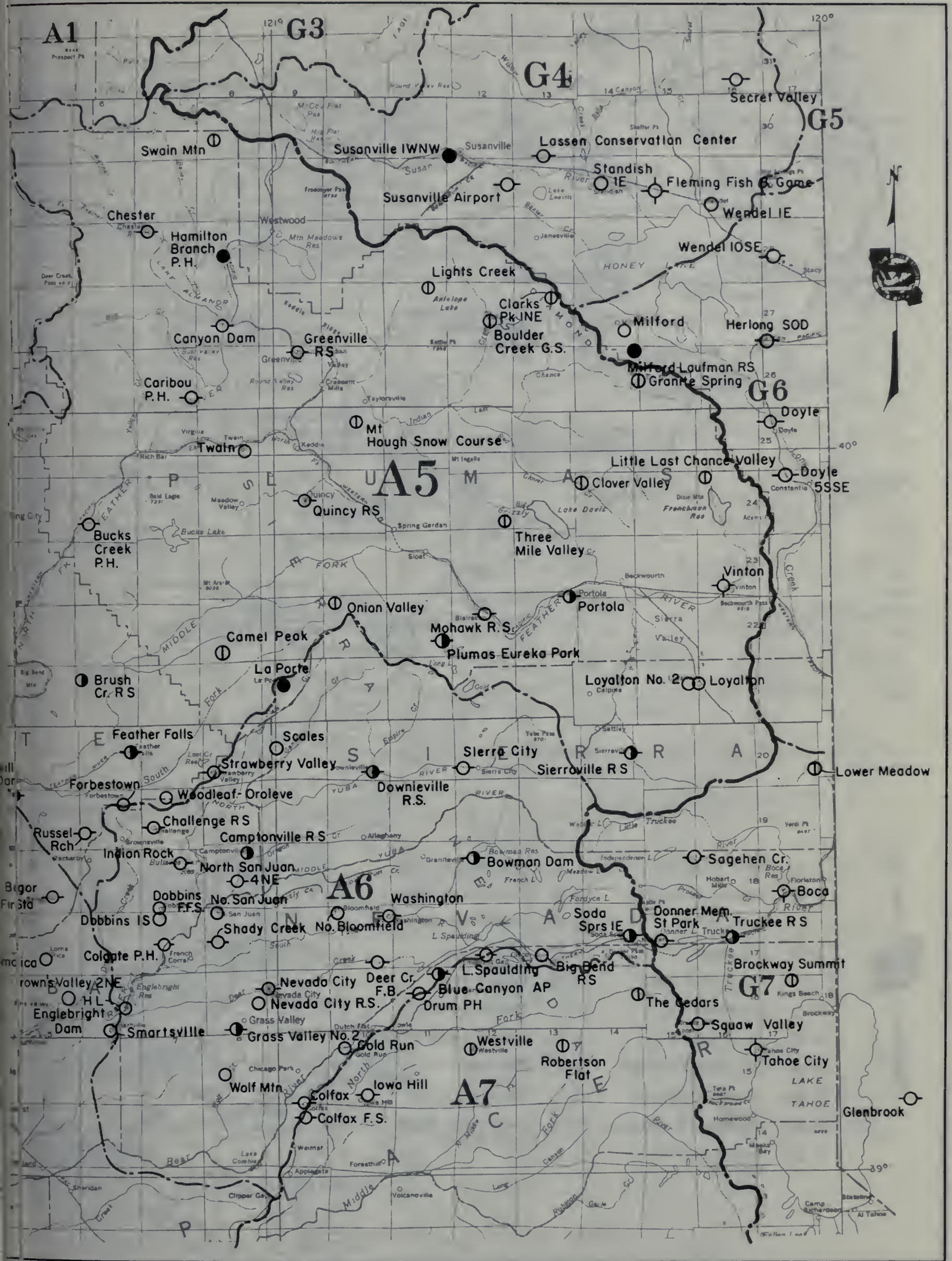
CLIMATOLOGICAL OBSERVATION STATIONS 1972-73

FIGURE A-1 SHEET 3 OF 7



CLIMATOLOGICAL OBSERVATION STATIONS

1972 - 73

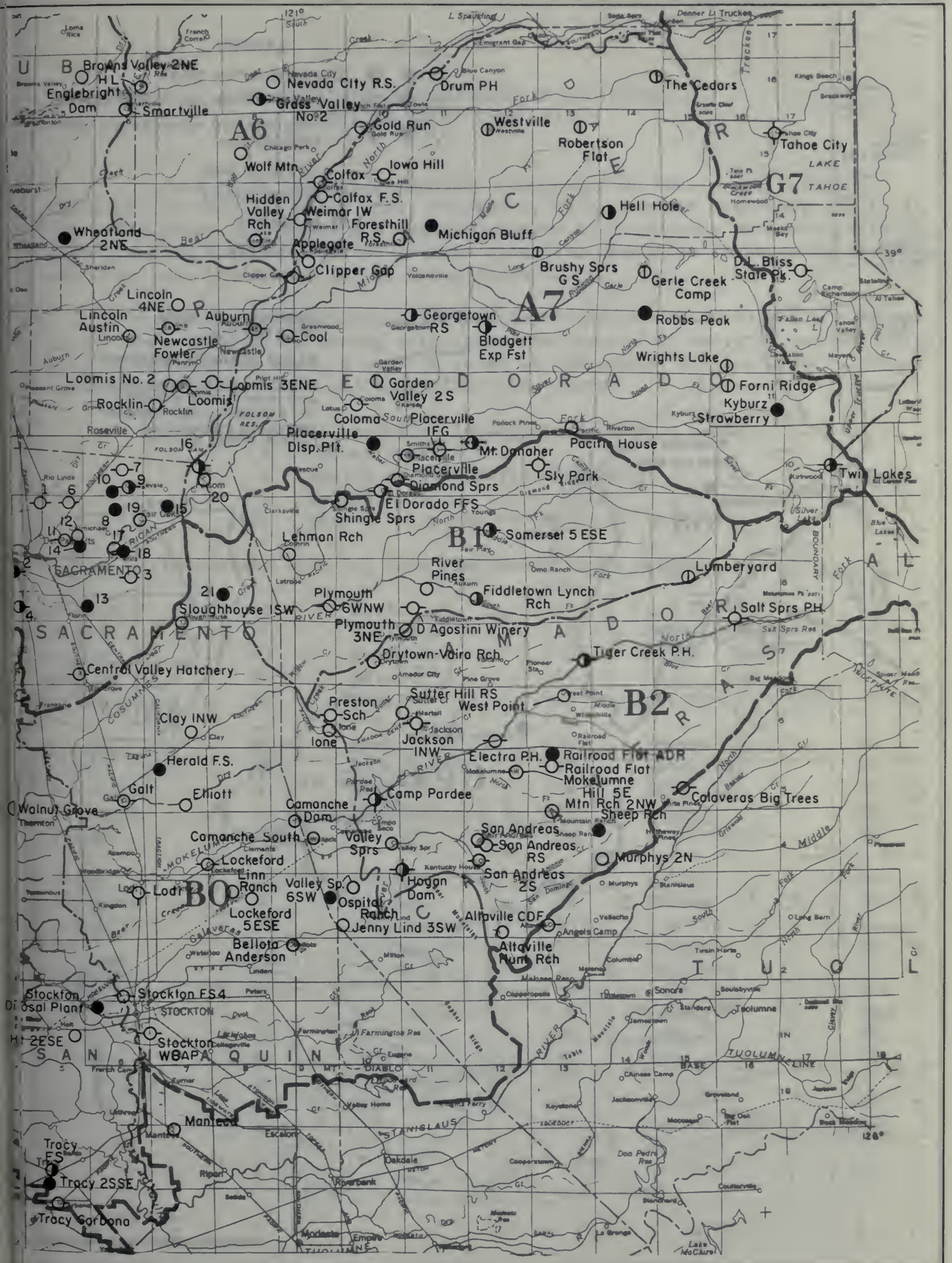


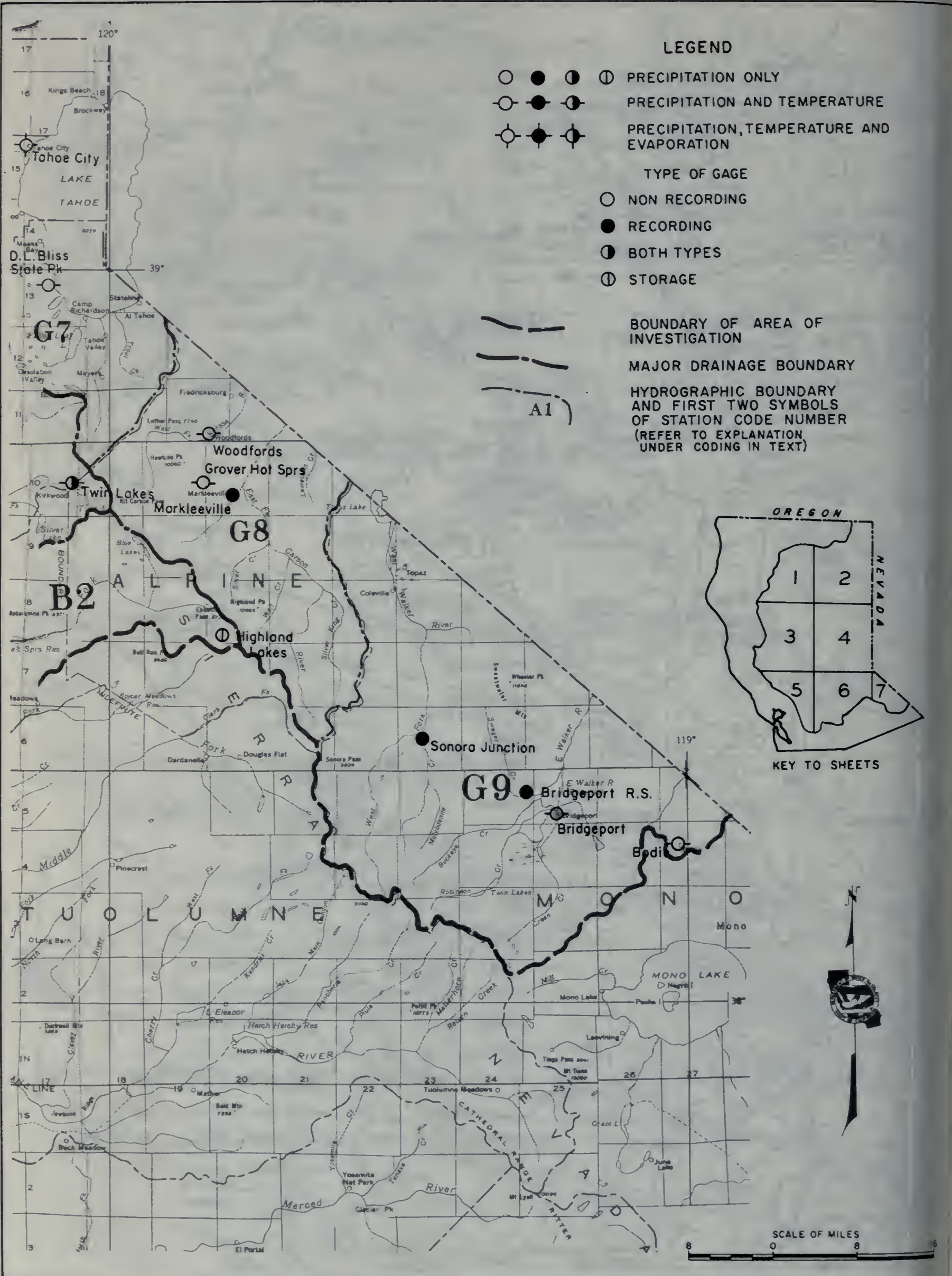
CLIMATOLOGICAL OBSERVATION STATIONS

1972 - 73



- | | |
|-----------------------------|-----------------------------------|
| 1 ○ North Sacramento | 12 ○ Country Club Center |
| 2 ● Sacramento City W B | 13 ● Fruitridge & Hedge |
| 3 ○ Mather AFB | 14 ● Arden & Mission |
| 4 ● Sacramento AP | 15 ● Phoenix Field |
| 5 ○ Sacramento 3SSW | 16 ● Folsom Dam |
| 6 ○ McClellan AFB | 17 ○ Rancho Cordova |
| 7 ○ Citrus Heights | 18 ● Rancho Cordova Fire Sta. |
| 8 ● Dewey & Winding Way | 19 ○ Fair Oaks |
| 9 ● Citrus Heights F.S. | 20 ○ Represa |
| 10 ● Greenback & Parkoaks | 21 ● Sacramento County Boys Ranch |
| 11 ○ Town & County Mitchell | |





LEGEND

- ● ◐ ○ PRECIPITATION ONLY
- ● ◐ ○ PRECIPITATION AND TEMPERATURE
- ● ◐ ○ PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

- NON RECORDING
- RECORDING
- ◐ BOTH TYPES
- STORAGE

BOUNDARY OF AREA OF INVESTIGATION

MAJOR DRAINAGE BOUNDARY

HYDROGRAPHIC BOUNDARY AND FIRST TWO SYMBOLS OF STATION CODE NUMBER (REFER TO EXPLANATION UNDER CODING IN TEXT)

OREGON

NEVADA

KEY TO SHEETS



SCALE OF MILES

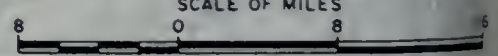


TABLE A-1

PRECIPITATION IN NORTHEASTERN CALIFORNIA
DURING WATER YEAR 1973

This table summarizes monthly precipitation totals for selected stations for the 1973 water year, October 1, 1972, through September 30, 1973. The table shows each station's assigned number in accordance with the explanation given in the introduction to this appendix. Location is shown by latitude and longitude in degrees to the third decimal.

Precipitation values are shown to the nearest hundredth (.01) of an inch. Where digital recording rain gages that record to only the nearest tenth (.1) of an inch are used, a zero is shown in the second decimal place. The following notations are used to qualify the values:

- .00- No record or incomplete record
- B Record began
- E Wholly or partially estimated
- N Record ends
- .00T Trace, an amount too small to measure

The county code for each station is shown below:

Alameda	60	Marin	21	San Mateo	41
Alpine	02	Mariposa	22	Santa Barbara	42
Amador	03	Mendocino	23	Santa Clara	43
Butte	04	Merced	24	Santa Cruz	44
Calaveras	05	Modoc	25	Shasta	45
Colusa	06	Mono	26	Sierra	46
Contra Costa	07	Monterey	27	Siskiyou	47
Del Norte	08	Napa	28	Solano	48
El Dorado	09	Nevada	29	Sonoma	49
Fresno	10	Orange	30	Stanislaus	50
Glenn	11	Placer	31	Sutter	51
Humboldt	12	Plumas	32	Tehama	52
Imperial	13	Riverside	33	Trinity	53
Inyo	14	Sacramento	34	Tulare	54
Kern	15	San Benito	35	Tuolumne	55
Kings	16	San Bernardino	36	Ventura	56
Lake	17	San Diego	90	Yolo	57
Lassen	18	San Francisco	80	Yuba	58
Los Angeles	70	San Joaquin	39		
Madera	20	San Luis Obispo	40	Oregon	61
				Nevada (State)	62
				Arizona	63
				Mexico	64

TABLE A-1 (Cont.)
PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1973

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
25	A1 202900	41.700	120.950	4193	ADIN RS	14.11	1.82	2.34	1.94	2.41	.80	1.25	.90	1.12	.00	.50	.00	1.03
60	R8 214603	37.743	121.587	300	ALTAMONT 4E	17.81	1.58	3.72	1.27	4.40	3.93	2.48	.39	.00	.00	.00	.00	.00
5	R2 214900	38.083	120.560	1545	ALTAVILLE CDF	38.82	.79	4.47	5.14	11.68	10.17	5.08	1.33	.11	.00T	.00	.00	.04
5	R2 015005			1400	ALTAVILLE HUNT RCH	.00-	.77	5.81	3.46	12.19	11.21	6.61	1.71	.07	.00	.00-	.00-	.00-
25	A1 015600	41.500	120.531	4400	ALTURAS COPCO	8.93	1.50	1.91	.98	1.13	.55	.86	1.14	.25	.00	.02	.00	.68
25	A1 015900	41.500	120.400	4900	ALTURAS 7 FSE	13.97	1.93	2.26	.99	1.54	.80	1.64	1.62	1.92	.07	.20	.05	.95
25	A1 016100	41.483	120.533	4365	ALTURAS 7	9.18	.87	1.71	1.03	1.49	.56	.57	1.61	.68	.00	.01	.00	.65
7	R9 022700	38.013	121.770	28	ANTIUCH FIRFRD MILL	23.17	3.21	5.11	1.44	6.29	4.82	2.03	.17	.07	.00	.00	.00	.03
7	RR 023200	37.983	121.727	60	ANTIUCH PUMP PLANT 3	22.78	4.17	4.56	1.44	5.94	3.97	2.49	.16	.00T	.00	.00	.00	.05
31	A7 024100	38.993	120.969	2200	APPLEGATE	.00-	1.72	9.94	6.84	16.87	9.12	6.74	.46		N			
34	A0 025500	38.594	121.353	87	ARDEN AND MISSION	.00-	1.42	4.69	1.95	7.59	5.58	2.59	.64	.02	.00	.00-	.00-	.00-
31	A7 038300	38.899	121.064	1292	AUBURN	43.97	2.13	6.40	4.96	13.69	8.57	6.24	.14	.08	.05	.00	.00	1.31
31	A7 038500	38.903	121.054	1058	AUBURN DIV OF FORESTRY	42.36	1.66	7.00	4.43	14.06	8.20	5.49	.17	.06	.04	.00	.00	1.29
04	A6 048100	39.390	121.407	750	BANGOR FIRE STATION	46.12	2.02	10.20	5.11	14.33	10.40	3.80	.07	.19	.00	.00T	.00	.00
45	A0 054600	40.400	122.133	422	BATTLE CREEK ADR	.00-	3.10	4.90	4.70	8.70	6.30	.00-	.10	2.20	.00	.00	.00-	.00-
39	R0 063900	38.044	121.058	108	HELLOTA ANDERSON	.00-	.17	4.88	2.05	5.57	4.51	3.74	.70	.00	.00	.00-	.00-	.00-
18	A1 073100	41.121	121.140	4130	RIEFER	12.28E	1.70	2.33	1.92	2.53	.97	1.06E	.49	.53	.00	.00	.00	.75E
18	A1 073105	41.161	121.188	4190	RIEFER 4NW	15.64	1.98	2.96	1.89	3.07	1.58	.84	.62	.90	.03	.51	.00	1.26
52	A3 084011	39.808	122.329	425	BLACK BUTTE DAM	31.98E	2.30	5.63	2.63	8.63	7.83	3.81	.08	.24	.13	.00T	.00E	.70E
11	A0 084100	39.788	122.303	375	BLACK BUTTE RANCH	30.41	2.58	5.51	2.49	7.52	7.59	3.51	.07	.24	.18	.00T	.00	.72
09	A7 088300	38.909	120.666	4414	BLODGETT EXP FOREST	70.90	3.44	11.93	10.06	20.08	12.67	7.19	2.24	1.18	.00	.00	.05	2.04
31	A7 089700	39.278	120.707	5280	BLIJE CANYON WB AP	70.72	4.74	11.68	9.69	19.37	12.03	7.19	1.55	1.37	.00	.05	.26	2.79
29	G7 093100	39.388	120.092	5575	BOCA	20.87	1.96	2.98	3.26	5.89	3.53	.37	.59	1.16	.48	.00	.65	.00T
26	G9 094300	38.212	119.012	8370	BOONIF	17.77	2.76	1.58	1.66	2.26	2.09	3.04	1.15	1.55	.19	.65	.84	.00
29	A6 101800	39.444	120.656	5347	BOWMAN DAM	71.68	5.76	11.29	11.33	19.16	11.30	6.15	1.11	1.48	.03	.12	1.38	2.57
34	RR 104300	38.108	121.696	35	BRANNAN ISLAND	25.36	2.90	5.04	1.86	7.42	5.20	2.56	.11	.14	.00	.00	.00	.13
7	RR 106000	37.883	121.774	325	BRENTWOOD 6SW	24.17	3.42	5.69	1.61	6.21	4.86	2.18	.15	.00	.00	.00	.00	.05
26	RR 107200	38.255	119.227	6470	BRIDGEPORT	9.88	1.54	.97	.24	1.81	2.07	.45	.12	.85	.18	.27	.58	.00
26	G9 107600	38.276	119.288	6560	BRIDGEPORT R S	10.47	1.22	2.27	1.00	1.92	1.93	.71	.15	.80	.37	.10	.00	.00
57	AR 111200	38.764	122.155	294	BROOKS FARNHAM RANCH	26.72	2.68	4.82	2.36	7.52	6.42	2.52	.16	.07	.00T	.00	.00T	.17
04	A5 113000	39.691	121.338	3560	BRUSH CREEK R S	78.07E	4.40	13.65	9.03	23.67	17.04	5.15	1.43	1.02	.28	.00E	.05	2.35
45	A1 114900	40.866	121.850	3771	BUCKHORN	59.94	4.41	10.52	8.94	12.09	8.84	6.04	1.33	2.70	.00	.00T	.00T	5.07
32	A5 115900	39.911	121.326	1760	HUCKS CREEK PH	71.64	5.42	11.74	8.13	20.25	15.25	7.18	.44	.79	.09	.00	.06	2.29
45	A1 121400	40.883	121.666	3127	BURNFY	26.14	2.83	3.88	3.39	7.36	4.31	2.20	.35	.79	.22	.00	.00	.81
5	R2 127700	38.277	120.308	4696	CALAVERAS BIG TREES	49.00	1.47	7.39	7.09	13.75	10.05	6.57	1.67	.60	.32	.00	.00T	.09
39	R0 132500	38.221	121.026	165	CAMANCHE DAM	23.18	.34	5.02	1.98	6.47	4.92	3.72	.56	.01	.00	.00	.00	.16
5	R0 132506	38.203	120.972	330	CAMANCHE SOUTH STATION	.00-	.27	3.93	1.98	6.47	4.92	.00-	.00-	.00-	.00-	.00-	.00-	.00-
5	R2 142800	38.250	120.843	658	CAMP PARDEE	27.24	.35	4.69	2.76	7.37	7.15	4.18	.52	.04	.00T	.00	.00	.19
58	A6 146200	39.451	121.048	2755	CAMPTONVILLE R S	.00-	.00-	.00-	9.74	19.69	.00-	6.19	.00-	.00-	.00-	.00-	.00-	.00-
25	A1 147600	41.450	120.866	4312	CANBY PS	9.60	.83	1.67	.98	2.07	1.14	.64	.65	.47	.00	.00	.00	1.15
32	A5 149700	40.171	121.086	4555	CANYON DAM	40.24	3.19	5.19	4.46	12.46	8.57	2.71	.14	1.31	.00	.83	.25	1.13
57	AR 150000	38.705	122.116	300	CAPAY 4W	36.27	2.93	7.07	2.73	10.96	8.60	3.15	.55	.13	.00	.00	.00	.15
32	A5 152200	40.086	121.147	2986	CARIBOU PH	.00-	3.85	6.52	.00-	13.12	9.27	.00-	.24	.44	.00-	.16	.00-	.00-
39	RR 158300	37.633	121.533	625	CASTLE ROCK RAD LAR	16.04	1.02	3.79	1.39	4.33	3.50	1.80	.14	.00T	.06	.00	.00	.01
25	G1 161400	41.528	120.173	4670	CEDARVILLE	11.53	.69	1.68	1.59	2.14	.91	1.72	1.01	.81	.11	.03	.00T	.94
25	G1 161405	41.439	120.097	4450	CEDARVILLE HANSEN	8.00	.57	1.26	.68	1.37	1.15	1.26	.48	.77	.00	.09	.00	.37
45	A0 163400	40.676	122.365	765	CENTRAL VALLEY BURNS	54.89	3.99	11.09	6.62	14.28	10.91	5.84	.04	.64	.06	.04	.00	1.38
34	R0 163501	38.416	121.366	38	CENTRAL VALLEY HATCHER	26.33	1.80	5.76	1.86	7.22	5.87	3.15	.35	.05	.00	.00	.00	.27
58	A6 165300	39.483	121.222	2560	CHALLENGE R S	79.10	5.36	13.55	8.12	23.65	16.06	8.39	.93	.89	.44	.00	.00T	1.71
04	A5 169300	39.635	121.526	1355	CHEROKEE	53.65	3.43	8.85	5.45	15.54	13.07	5.90	.15	.50	.05	.00	.00	.71
32	A5 170000	40.305	121.227	4525	CHESTER	29.80	2.94	4.65	2.31	9.27	6.23	1.42	.22	1.35	.00	.49	.16	.76
04	A0 171500	39.700	121.783	205	CHICO EXPERIMENT STA	37.19	2.28	6.76	4.36	10.58	7.71	4.49	.01	.66	.17	.00	.00	.17
04	A0 171601	39.798	121.853	220	CHICO AIRPORT	35.86	2.26	6.50	4.16	10.40	6.35	4.78	.53	.75	.00	.00	.00	.13
34	A0 177300	38.707	121.296	138	CITRUS HEIGHTS	30.93	1.64	5.58	3.04	8.99	6.97	3.84	.25	.04	.00	.00	.00	.58
34	A0 177334	38.679	121.283	160	CITRUS HEIGHTS F.S.	.00-	1.59	6.11	1.85	9.36	6.68	3.10	.00-	.03	.00	.00	.00	.47
57	RR 178400	38.416	121.533	14	CLARKSBURG	26.91	2.23	6.10	1.97	7.79	5.98	2.49	.06	.01	.00	.00	.00	.28
11	A0 178500	39.548	122.398	410	CLARKS VALLY MUDD	30.52	2.31	5.87	2.53	7.81	7.89	3.72	.12	.13	.06	.05	.00	.03
17	AR 180600	38.966	122.650	1320	CLEARLAKE HIGHLDS	35.11	2.98	5.62	2.52	11.66	8.93	2.64	.16	.03	.00T	.02	.03	.52
31	A6 182700	38.969	121.019	1675	CLIPPER GAP	.00-	1.57	7.96	6.11	16.92	17.49	.00-	.39	.17	.00	.00	.00	1.42
17	AR 188000	38.824	122.721	2520	COBB	78.23	5.35	11.49	6.87	26.15	20.45	6.48	.30	.09	.00	.00	.00	1.05
17	AR 188200	38.833	122.766	2600	COBB 2 NW	63.44E	5.11	9.06	5.18	21.45	17.60	4.70	.30	.04	.00F	.00E	.00E	.00E
04	A4 189100	39.944	121.719	3180	COHASSET 1 NNE	69.83	5.17	11.98	5.91	20.29	15.60	8.23	.46	.48	.07	.49	.00T	1.15
45	A0 190700	40.400	122.133	420	COLEMAN FISH HATCHERY	36.58	2.99	5.29	5.24	8.91	6.65	4.05	.20	2.86	.00	.00	.00T	.39
31	A7 191200	39.098	120.952	2418	COLFAX	.00-	4.19	6.72	4.24	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00	1.45
31	A7 191201	39.090	120.946	2350	COLFAX FIRE STATION	56.78	4.48	10.33	5.90	17.27	10.54	5.64	.52	.35	.00	.00	.00	1.75
58	A6 191600	39.330	121.188	585	COLGATE POWER HOUSE	51.70	3.09	10.07	6.14	16.14	9.84	4.45	.41	.48	.14	.00	.00	.94
09	A7 192200	38.801	120.891	770	COLOMA	40.06	.96	7.05	4.18	13.90	7.25	4.63	.71	.32	.12	.00	.00	.93
06	A0 194800	39.200	122.016	60	COLUMA 1 SSW	24.72	1.88	4.79	2.18	8.03	4.98	2.29	.18	.15	.00	.00	.00	.11
09	A7 198500	38.883	121.016	1525	COOL	43.09	1.31	6.41	4.86	14.40	8.78	5.33	.36	.10	.00	.00	.00	1.54
52	A0 202303	39.900	122.194	270	CORNING UHL	28.43	2.86	4.66	2.67	8.29	6.28	2.80	.09	.53	.00	.00	.00	.25
52	A0 202700	39.9																

TABLE A-1 (Cont.)
PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1973

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
18	G6 250400	40.028	120.103	4240	DOYLE	.00-	1.02	1.41	.96	3.19	1.27	.84	.21	.00-	.26	.67	.32	.01
18	G6 250600	39.950	120.083	4385	DOYLE SSE	16.38	1.29	2.13	1.95	4.15	2.00	1.54	.51	1.80	.11	.60	.12	.16
31	A6 251400	39.257	120.766	7412	DRUM PH	.00-	4.22	13.09	7.91	19.32	15.14	7.16	.00-	.68	.30	.00	.15	2.64
57	A0 254300	38.763	121.839	65	DUFOUR	.00-	2.33	3.85	1.76	7.76	6.02	2.13	.20	.35	.00	.00	.00-	.00-
57	A0 256800	38.885	121.965	65	DUNNIGAN	26.19	2.40	6.80	2.35	5.59	5.66	2.98	.08	.12	.00	.00	.00	.21
57	A0 256900	38.887	121.988	104	DUNNIGAN POWERS RCH	28.86	2.43	6.57	1.94	8.95	5.41	2.75	.36	.25	.00	.00	.00	.16
47	A2 257200	41.216	122.266	2420	DUNSMUIR R S	62.65	4.43	8.98	8.96	15.00	14.83	5.96	.48	.76	.00	.12	.00	2.63
04	A0 257601	39.643	121.798	155	DURHAM FIRE STATION	32.40	1.68	5.92	3.06	10.37	6.99	3.50	.00	.69	.02	.00	.00	.14
18	G3 259502	40.651	120.772	5121	EAGLE LAKE NELSON	10.44	1.88	1.70	1.32	2.37	1.66	.51	.04	.47	.00	.20	.03	.25
06	A3 264000	39.366	122.516	1205	EAST PARK RESERVOIR	29.95	2.69	5.22	2.45	8.62	7.91	2.71	.19	.11	.00	.00	.00	.05
09	A7 272000	38.679	120.888	1550	EL DORADO PFS	37.62	1.10	7.25	4.62	10.65	7.04	4.81	1.20	.20	.00	.00	.00	.75
3	R2 272800	38.319	120.669	715	ELECTRA PH	36.50	.24	6.31	4.40	10.64	8.24	5.17	.93	.13	.13	.00	.00	.31
57	A0 274400	38.525	120.700	40	ELKHORN FERRY	28.10	1.81	5.80	2.19	8.82	6.09	2.76	.32	.02	.00	.00	.00	.30
39	B0 276000	38.236	121.193	92	ELLIOTT	23.19	.88	4.77	1.83	6.90	4.50	3.74	.22	.03	.00	.00	.00	.32
34	A0 294800	38.642	121.270	180	FAIR OAKS	.00-	1.75	5.79	2.34	9.59	6.77	3.61	.33	.00	.00	.00	.00	.39
04	A5 299400	39.593	121.258	2965	FEATHER FALLS	.00-	4.50	9.50	6.30	.00-	.00-	.00-	.10	.00-	.00-	.00	.50	1.60
52	A0 302000	40.350	122.450	800	FERGUSON RANCH	.00-	3.30	10.90	5.40	10.90	10.00	7.60	.00-	1.30	.00	.00	.00	.00-
3	H1 303800	38.525	120.700	2140	FIDDLETOWN LYNCH RCH	44.19	.74	7.04	4.96	13.26	10.15	5.57	1.03	.45	.02	.00	.00	.47
17	A8 305600	38.982	122.874	1377	FINLEY 1 SSE	34.54	2.97	4.83	3.77	12.30	7.02	2.53	.09	.04	.00	.00	.26	.73
18	G4 308700	40.352	120.703	4000	FLEMING FISH + GAME	8.56	1.66	1.66	.47	1.73	.75	.83	.26	.71	.00	.23	.11	.15
34	A7 311300	38.706	121.161	350	FOLSOM DAM	30.02	1.31	5.69	2.77	9.02	6.31	3.75	.83	.05	.02	.00	.00	.28
04	A5 312700	39.528	121.281	2900	FORBOSTOWN	56.40	5.45	12.97	8.63	4.62	15.24	8.44	.41	.87	.00	.00	.10	.17
31	A0 313400	39.020	120.824	3190	FORESTHILL R S	57.87	2.32	10.24	7.55	18.27	11.00	5.53	.90	.25	.00	.00	.00	1.41
04	A4 313525	39.884	121.663	2520	FOREST RANCH	76.40	4.24	16.49	6.93	23.17	15.58	6.97	.67	.61	.12	.00	.00	1.62
25	G1 315700	41.850	120.133	4498	FORT BOWELL	14.84	.96	2.71	2.67	2.26	1.53	1.21	.44	.90	.00	.21	.00	1.93
45	A7 324200	40.700	122.633	1100	FRENCH GULCH	50.74	6.20	11.03	4.54	9.68	10.13	6.36	.43	.49	.29	.07	.00	1.48
7	A0 326611	38.522	121.361	50	FRUITRIDGE AND HEDGE	24.27	1.71	4.76	1.53	7.17	5.50	3.21	.14	.00	.00	.00	.00	.25
11	A0 326702	39.588	122.451	610	FRUTO 2	30.06	3.12	5.64	2.51	7.41	8.05	3.02	.00	.19	.09	.01	.00	.02
34	B0 330100	38.253	121.303	47	GALT	20.45	1.44	4.49	1.51	6.24	3.95	2.39	.07	.00	.00	.00	.00	.17
09	A7 338400	38.924	120.788	3001	GEORGETOWN R S	48.18	2.03	6.74	4.84	15.47	10.11	4.54	1.83	.56	.00	.00	.00	2.06
45	A2 340500	41.010	122.406	1435	GIBSON HMS	78.62	6.86	15.33	8.33	16.02	20.08	7.58	.45	.74	.00	.00	.00	3.23
11	A0 346000	39.788	122.050	160	GLENN COLIISA HOGATE	28.41	2.25	4.73	2.58	8.26	6.74	2.57	.19	.68	.37	.00	.00	.04
31	A7 349100	39.172	120.866	3320	GOLD RUN	62.52	2.98	10.97	8.56	18.21	11.26	6.22	1.15	.78	.06	.00	.00	2.33
74	B9 354100	38.193	121.615	0	GRAND ISLAND	25.82	2.97	5.20	1.83	7.41	5.53	2.64	.03	.06	.00	.00	.00	.15
29	A4 357300	39.208	121.067	2400	GRASS VALLEY N02	61.49	2.73	10.82	8.25	18.01	11.94	7.31	.24	.74	.07	.00	.00	1.38
74	A0 359034	38.679	121.317	131	GREENRACK + PARK OAKS	27.67E	1.33	4.85	2.34	8.60	6.31	3.05	.66	.03	.00	.00	.00	.50F
32	A5 362100	40.140	120.940	3500	GREENVILLE RS	35.25	3.70	5.29	1.82	11.27	8.46	1.52	.71	.64	.08	.52	.00	1.22
04	A0 364000	39.366	121.694	90	GRIOLFE BUTTE W D	30.73	2.04	5.45	3.23	9.29	6.96	2.81	.15	.13	.20	.00	.00	.47
02	B8 367500	38.695	119.924	5800	GROVER HOT SPRINGS	27.28	3.05	3.38	5.50	6.28	5.11	1.63	.39	.74	.25	.22	.61	.12
17	A9 368400	38.741	120.513	1200	GUENOC RANCH	65.23	6.39	10.63	8.72	22.40	10.47	4.58	.19	.07	.00	.00	.00	1.78
32	A5 372500	40.268	121.086	4560	HAMILTON BRANCH PH	28.41	2.61	3.34	2.66	9.46	6.12	2.10	.11	.77	.00	.33	.06	.85
48	A0 372948	38.158	121.806	150	HAMILTON RANCH	.00-	2.25	4.05	1.06	7.20	5.68	2.24	.25	.05	.00	.00	.00	.00-
45	A3 379100	40.366	122.966	2710	HARRISON GULCH R S	42.17	4.95	7.97	5.44	9.22	9.00	3.56	.74	.00	.00	.00	.00	1.29
29	A6 380000	39.239	121.266	580	H L ENGLEBRIGHT DAM	45.02	2.78	8.13	5.09	12.85	10.50	4.52	.58	.17	.00	.00	.00	.40
45	A1 382100	40.800	121.500	3348	HAT CREEK RS	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00	.00	.00	.47
45	A1 382400	40.933	121.550	3015	HAT CREEK PH NO 1	17.09	1.77	3.02	2.26	4.38	2.55	1.29	.47	.60	.18	.04	.00	.53
31	A7 389100	39.058	120.414	4850	HELL HOLE	.00-	8.10	9.10	6.20	14.80	7.60	3.90	.00-	2.40	.00	.30	1.10	1.00
34	B0 391900	38.296	121.242	70	HERALD FIRE STATION	20.43E	1.11	4.56	1.34	6.42	4.11	2.63	.00	.08	.00	.00	.00	.19
18	G6 392200	40.150	120.100	4083	HERLONG S O D	6.11	1.41	1.20	.33	.84	.19	1.07	.20	.65	.00	.07	.08	.07
29	A6 394600	39.026	121.093	1480	HIDDEN VALLEY RANCH	46.09	2.09	7.98	5.12	13.25	9.89	5.98	.14	.02	.20	.00	.00	1.42
17	A8 401000	38.850	122.716	2960	HOBBERGS	68.45	5.50	10.47	4.25	22.38	19.23	4.91	.28	.09	.00	.00	.40	.44
5	R2 401800	38.150	120.819	554	HOGAN DAM	26.77	.62	4.94	2.42	6.97	6.31	4.72	.59	.04	.02	.00	.00	.12
39	B9 404100	37.928	121.391	0	HOLT 2 ESF	.00-	1.62	4.25	1.73	4.87	3.38	2.52	.26	.00-	.00	.00	.00	.20
04	A0 407500	39.327	121.526	113	HONCUT	33.80	1.64	5.39	3.78	11.32	7.60	3.10	.36	.00	.00	.00	.00	.61
17	A8 409700	39.016	123.000	2510	HOPLAND RNF	.00-	3.80	6.11	4.30	.00-	.00-	.00-	.00-	.05	.00	.00	.05	1.42
45	A3 421900	40.501	122.549	1090	IGO PW	44.38	3.33	9.60	5.51	10.96	7.73	5.50	.02	.66	.00	.00	.00	1.11
58	A6 424850	39.437	120.173	2240	INDIAN ROCK	79.88	4.45	13.41	8.66	25.70	15.48	8.12	.27	.59	1.14	.00	.00	2.06
03	B0 428300	38.348	120.938	284	IONE	34.18	.58	5.86	3.77	10.45	7.01	5.25	.90	.18	.00	.00	.00	.18
31	A7 428800	39.088	120.839	3056	IOWA HILL	61.46	2.88	10.79	7.93	19.03	11.34	5.89	.81	.82	.00	.00	.00	1.47
3	R2 432100	38.760	120.789	1550	JACKSON 1 NW	32.36	.29	5.94	2.77	9.12	7.44	4.63	1.24	.31	.00	.00	.00	.27
52	A0 434600	40.329	122.203	355	JELLY	33.59	2.53	5.45	4.26	9.07	7.61	3.61	.21	.47	.00	.10	.00	.08
5	R0 435200	38.075	120.911	235	JENNY LIND 3S4	24.47	.42	4.42	2.42	6.26	5.33	4.21	.53	.00	.00	.00	.00	.02
25	A1 437400	41.265	120.379	5290	JESS VALLEY	17.09	2.11	2.67	1.56	2.74	.51	2.38	2.01	1.71	.10	.16	.03	1.11
06	A0 439000	38.956	121.969	60	JOHNS SCHOOL	28.58	2.49	6.46	2.03	9.01	5.44	2.57	.06	.32	.00	.00	.00	.20
17	A2 448800	38.975	122.831	1385	KELSEYVILLE	32.87	2.43	4.88	3.39	11.50	7.35	2.61	.04	.00	.00	.00	.27	.60
39	B8 450800	37.676	121.432	172	KERLINGER	13.77	.93	3.61	1.44	3.27	2.78	1.56	.18	.00	.00	.00	.00	.00
45	A4 454400	41.010	121.871	2650	KILARC PH	56.35	4.55	9.76	8.38	11.39	7.87	7.15	1.88	2.34	.67	.00	.02	2.34
09	A7 461600	38.795	120.145	5700	KYRURZ STRAWBERRY	43.22	2.38	5.59	7.32	12.64	5.83	3.68	1.85	1.12	.46	.08	1.93	.44
40	468900	39.233	123.183	670	LAKE MENDOCINO DAM	.00-	3.00	5.40	6.40	11.60	6.10	.00-	.20	.20	.00	.00	.00	1.10
17	A8 470100	39.033	122.916	1343	LAKEPORT	37.91	2.69	5.89	5.20	13.04	6.77	3.18	.07	.30	.00	.00	.05	.72
57	A0 471200	38.492	122.5															

TABLE A-1 (Cont.)

PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1973

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
34	47	737000	38.693	121.160	295	REPRFSA	27.22	1.12	5.29	2.39	8.10	5.81	3.62	.70	.01	.00	.00	.00	.19	
04	40	742204	39.494	121.746	103	RICHVALE	27.56	2.04	4.91	2.81	6.82	7.74	2.50	.00	.58	.007	.00	.00	.12	
4R	89	744600	38.148	121.693	40	RIO VISTA	25.44	3.46	4.86	1.88	7.68	4.81	2.48	.09	.10	.00	.00	.00	.08	
4R	40	744604	38.156	121.776	145	RIO VISTA SW	26.65	3.90	5.30	1.65	8.25	5.20	2.35	.00	.00	.00	.00	.00	.00	
3	R1	746400	38.546	120.744	2015	RIVER PINES	.00-	1.06	6.62	3.94	12.30	8.84	5.44	1.18	.59	.00	.00	.00-	.00-	
09	A7	748900	38.904	120.359	5175	ROHRS PEAK	.00-	1.90	7.80	9.60	16.10	8.50	.00-	.00-	1.80	.10	.00	1.20	.40	
31	A0	751600	38.793	121.241	239	ROCKLIN	32.14	1.47	5.37	3.49	9.51	7.47	3.71	.50	.01	.02	.00	.00	.59	
45	42	758100	40.800	121.933	2100	ROUND MOUNTAIN PG AND	.00-	4.03	11.40	10.11	16.41	10.07	7.10	.71	2.06	.00	.08	.00-	3.55	
04	46	760805	38.488	121.336	2400	RUSSELL RANCH	.00-	3.67	11.04	4.83	16.72	13.82	.00-	.00-	.00-	.00-	.00-	.00-	.00-	
34	A0	763000	38.516	121.500	17	SACRAMENTO WR AP	24.55	1.75	5.14	1.88	6.87	5.64	2.76	.05	.13	.00	.00	.00	.33	
74	A0	763300	38.583	121.483	25	SACRAMENTO WR CITY	26.59	1.70	5.08	2.25	7.29	6.47	2.89	.41	.06	.00	.00	.00	.44	
34	R0	763334	38.553	121.133	190	SAC COUNTY ROYS RANCH	.00-	.72	6.69	2.41	9.30	5.27	3.94	.65	.00	.00E	.00	.00	.00-	
34	A0	763355	38.553	121.133	190	SACRAMENTO 3 SSW	.00-	1.70	5.08	2.25	7.29	6.47	2.89	.41	.00-	.00	.00	.00	.44	
11	A0	763500	39.429	122.184	95	SACRAMENTO REFUGE	27.40	2.51	5.13	2.68	7.55	6.91	2.44	.00	.13	.00	.00	.00	.05	
29	G7	764100	39.431	120.240	6337	SAGEHEN CREEK	33.59	2.61	5.30	5.73	9.10	5.17	1.99	.75	1.41	.14	.30	.64	.45	
2R	A9	764900	38.565	122.381	870	SAINT HELENA 7 NE	.00-	.00-	.00-	4.24	.00-	8.40	3.49	.10	.07	.00	.00	.00	.00-	.00-
3	R2	768900	38.497	120.216	3700	SALT SPRINGS PH	45.33	1.80	6.56	5.47	12.33	9.74	5.56	1.87	1.15	.15	.35	.24	.07	
5	R2	770100	38.192	120.681	1120	SAN ANDREAS	35.72	.45	5.35	3.01	12.19	8.14	5.61	.44	.16	.21	.00	.00	.16	
5	R2	770200	38.163	120.671	830	SAN ANDREAS 2 S	34.51	.30	5.06	3.48	11.60	8.24	5.05	.42	.19	.15	.00	.00	.02	
5	R2	770500	38.192	120.669	1100	SAN ANDREAS R S	34.94	.42	5.25	2.35	11.84	8.48	5.40	.55	.26	.25	.00	.00	.14	
46	A6	802900	39.600	120.983	4300	SCALFS	.00-	6.35	15.32	10.50	.00-	.00-	.00-	.00-	2.25	.00T	.00	.35	3.78	
1R	G4	807400	40.523	120.766	4435	SECRET VALLEY	.00-	1.37	1.82	.00-	1.78	.91	.49	.00-	.68	.00	.01	.23	.12	
29	46	811229	39.329	121.106	2010	SHADY CREEK	47.80	2.32	9.96	4.53	14.97	7.52	4.88	.85	2.09	.26	.00	.00	.42	
45	A2	813500	40.716	122.416	1076	SHASTA DAM	68.33	4.52	13.36	6.58	18.96	13.88	8.41	.02	.86	.21	.16	.00	1.37	
05	R2	814500	38.209	120.463	2350	SHEEP RANCH	39.10	1.00	6.10	4.80	10.80	8.80	6.00	.90	.20	.50	.00	.00	.00	
45	A4	817500	40.494	121.846	3540	SHINGLETOWN 2 E	53.90	5.88	8.18	7.01	10.55	8.46	6.59	1.09	3.72	.47	.06	.04	1.85	
46	A6	820700	39.564	120.639	4150	SIERRA CITY	65.69	6.02	8.47	10.37	18.07	11.71	5.04	1.40	1.07	.00T	.16	1.34	2.04	
09	A7	821515	38.800	120.883	7400	SIERRA SKI RANCH	46.23	3.05	6.04	8.10	12.63	7.36	3.74	.98	1.17	1.11	.08	1.59	.38	
46	A5	821800	39.583	120.368	4975	SIERRAVILLE RS	24.86	1.85	3.44	7.95	7.14	4.02	1.31	.23	.72	.80	.24	.91	.25	
34	R0	829301	38.483	121.206	123	SLOUGHHOUSE ISL	.00-	1.24	6.62	2.37	9.01	5.87	3.74	.91	.04	.00	.00-	.00-	.00-	
5R	A0	830000	39.202	121.287	800	SMARTSVILLE	39.91	3.19	7.62	4.80	12.18	9.87	1.38	.33	.08	.03	.00	.00	.43	
29	A6	833200	39.325	120.366	4885	SODA SPRINGS 1 E	62.00	3.42	9.18	9.50	17.05	10.26	6.26	1.30	2.65	.35	.18	1.15	1.60	
9	B1	834409	38.620	120.598	3160	SOMERSET 5 ESE	43.43	1.49	5.96	4.52	12.04	10.34	5.11	1.31	.95	.01	.00	.01	.78	
26	G9	835500	38.351	119.448	6886	SONORA JUNCTION	.00-	1.43	2.21	1.68	2.45	.00-	.00-	.00-	.00-	.02	.38	.46	.00	
31	G7	847400	39.196	120.236	6235	SQUAW VALLEY	53.40	2.90	7.55	10.00	14.64	9.00	3.92	.81	1.55	.92	.18	.86	1.07	
1R	G4	848700	40.366	120.400	4030	STANDISH 1E	.00-	1.19	1.87	.60	1.97	1.21	.88	.00	.00-	.00-	.00-	.00-	.00-	
04	A5	854400	39.904	121.527	3518	STIRLING CITY R S	.00-	5.10	12.80	9.60	25.50	16.00	.00-	.30	1.10	.00	.00	.10	2.40	
39	H9	855400	37.935	121.327	11	STOCKTON DISPOSAL PLT	.00-	.84	4.47	1.69	.00-	3.22	2.56	.35	.00	.00	.00	.00	.10	
39	R0	855800	37.900	121.250	22	STOCKTON WRAP	23.37	.74	6.22	2.38	6.31	4.19	3.18	.23	.04	.00T	.00	.00	.08	
39	H0	856000	38.000	121.316	12	STOCKTON FIRE STATION	19.93	1.21	4.49	1.79	5.62	3.67	2.82	.10	.03	.00	.00	.00	.20	
06	A3	857800	39.255	122.658	3020	STONYFORD COOLEY RCH	65.22	4.79	10.33	7.48	17.53	17.35	5.73	.55	.20	.06	.00	.00	1.20	
06	A3	858000	39.383	122.545	1168	STONYFORD R S	33.80	3.92	5.62	2.95	9.33	8.99	2.68	.13	.08	.01	.00	.00	.09	
11	A3	858700	39.583	122.533	770	STONY GORGE RES	29.81	3.31	4.91	3.01	7.37	7.88	2.95	.01	.19	.15	.00T	.00	.01	
5R	A6	860600	39.563	121.108	3808	STRAWHERRY VALLEY	89.91	6.55	15.31	9.83	27.24	18.07	8.08	.70	1.45	.00T	.00T	.09	2.59	
1R	G4	870200	40.383	120.550	4148	SUSANVILLE AP	14.10	2.47	1.92	1.39	3.66	2.06	1.07	.00	.77	.00	.02	.47	.27	
1R	G4	870300	40.433	120.666	4555	SUSANVILLE 1WNW	15.33	1.85	2.35	1.68	4.56	2.75	.60	.00	.82	.00	.04	.24	.44	
3	R2	871300	38.377	120.800	1586	SUTTER HILL RS	.00-	.26	6.33	3.93	10.29	8.55	5.36	1.44	.00-	.00	.00	.00	.61	
1R	G2	887200	40.811	120.560	5320	TERMO 6 SW	9.45E	1.37	2.07	.79	1.79	.59	1.00	.50	.37	.84	.00	.16	.09	2.5E
1R	G2	887300	40.866	120.450	5300	TERMO	10.40	1.17	1.75	.82	1.66	.81	1.07	.92	1.11	.00	.64	.05	.40	
04	A0	889414	39.508	121.683	141	THERMALITO AFTERHAY	29.16	2.30	4.99	2.98	9.38	6.65	2.32	.00	.15	.11	.00	.00	.29	
3	R2	892800	38.449	120.491	2355	TIGER CREEK PH	52.62	1.55	7.48	7.23	15.28	11.48	6.87	1.90	.49	.03	.00	.00	.31	
51	A0	893301	39.028	121.779	30	TISDALE BYPASS	25.22	2.09	4.73	2.05	8.07	5.33	2.33	.28	.03	.01	.00	.00	.30	
34	A0	898434	38.606	121.405	50	TOWN AND CNTRY MITCHL	27.33	1.72	5.17	2.35	8.86	6.44	2.86	.20	.07	.00	.00	.00	.51	
39	H9	899500	37.737	121.424	53	TRACY FIRE STATION	14.34	1.21	2.95	1.64	3.46	2.84	1.94	.25	.00	.00	.00	.00	.00	
39	H9	899700	37.708	121.410	108	TRACY 2SSE	15.01	1.02	3.73	1.56	3.59	2.91	2.02	.18	.00	.00	.00	.00	.00	
39	H9	899900	37.695	121.413	137	TRACY CARRONA	15.64	1.06	3.84	1.68	3.73	3.14	1.91	.23	.00	.00	.00	.00	.00	.00
29	G7	904300	39.329	120.188	5995	TRUCKEE R S	29.66	2.03	4.48	4.85	8.84	5.09	1.78	.79	1.08	.04	.00	.59	.09	
32	A5	909500	40.019	121.070	2840	TWIN	.00-	3.90	5.79	4.35	13.95	9.89	2.01	.37	.85	.00	.00-	.00-	.00-	
02	A7	910500	38.706	120.040	7829	TWIN LAKES	47.45	3.65	5.70	7.78	11.16	8.52	4.45	1.70	1.86	.28	.60	1.86	.29	
17	A8	916700	39.183	123.033	1520	UPPER LAKE 7 W	48.65	3.18	7.82	6.07	13.97	11.06	5.35	.32	.10	.00T	.00	.00	.74	
4R	A0	920000	38.760	121.949	104	VACAVILLE	34.29	2.99	5.64	2.66	13.76	6.47	2.94	.04	.07	.00	.00	.00	.12	
5	R2	923500	38.192	120.830	695	VALLEY SPRINGS	27.58	.49	4.74	2.71	7.59	7.23	4.06	.53	.10	.02	.00	.00	.11	
5	R2	923700	38.132	120.902	360	VALLEY SPRINGS 65W	24.64	.51	4.54	2.06	7.47	5.39	4.22	.76	.01	.02	.00	.00	.06	
51	A0	930700	38.790	121.595	43	VERONA	23.77	1.92	4.04	1.85	6.89	6.16	2.14	.37	.07	.00T	.00	.00	.33	
52	A0	934200	39.938	122.061	202	VINA MONASTERY	34.30	2.37	6.08	3.82	9.77	7.01	4.14	.28	.44	.00	.00	.16	.23	
32	A5	935100	39.818	120.188	4945	VINTON	12.16	1.29	1.79	1.46	2.42	1.60	.75	.22	1.59	.32	.27	.38	.07	
45	A2	938600	40.950	122.433	1360	VOLLMERS	88.26	9.29	17.35	8.06	18.06	23.24	8.74	.24	.50	.00	.04	.02	2.88	
45	A4	939000	40.450	121.866	2200	VOLTA PH	41.93	6.38	6.10	5.32	8.42	7.17	4.76	1.26	2.10	.00	.00	.00	.42	
34	H9	942800	38.237	121																

TABLE A-2

INDEX OF STORAGE GAGE PRECIPITATION STATIONS

This table lists and shows location and other information for the storage gages for which the seasonal accumulation of precipitation is reported in the following table. These gages are located in the remote mountain regions where no observers are available to operate conventional rain gages. Storage precipitation gages are tanks with capacity for storing an entire year's rainfall along with antifreeze to melt frozen precipitation and oil to prevent evaporation losses. Once each year, in the summer or early fall, the precipitation that has accumulated since the last measurement is measured and then emptied out. With the addition of the proper amount of oil and anti-freeze, the gage is ready to receive the next season's amount. Although logistics preclude conducting the measurement operation exactly at the end of the water year and exactly one year following the previous measurement, the gages fairly accurately depict the total precipitation for the water year because usually a very small amount of precipitation occurs in the summer months.

An explanation of the column headings and the code symbols used in connection with the storage gage station listing follows:

Station Number - Each station in these tables has been assigned an identification number as explained in the Introduction to this appendix.

40-Acre Tract - This denotes the location of the station within a section subdivision of the U. S. Public Land Survey. The letter code is derived from the section diagram to the right.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian - The code for this column is as follows:

M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

- 000 Private Cooperators
- 419 Tehama County Flood Control and Water Conservation District
- 814 California Department of Water Resources, Snow Surveys
- 900 National Weather Service
- 903 U. S. Corps of Engineers
- 905 U. S. Forest Service
- 911 Military Weather Stations in California

County - This is a standard code for California counties and is explained in the Introduction to Table A-1.

TABLE A-2 (Cont.)
INDEX OF STORAGE GAGE PRECIPITATION STATIONS
NORTHEASTERN CALIFORNIA

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
A3 0093	ALDER SPRINGS	4400	SEC 24	T21N	R08W	G M	39	39	39	122	42	26	903		1966		11	
A3 0468	BALL MOUNTAIN LOOKOUT	6500	SEC 17	T24N	R08W	M	39	56	00	122	47	00	900		1948		52	
A1 0867	BLACKS MOUNTAIN	7200	SEC 33	T34N	R07E	M	40	46	00	121	12	00	900		1941	05	18	
A5 1002	BOULDER CREEK GUARD STATION	5020	SEC 15	T27N	R12E	G M	40	11	52	120	36	45	905		1964		32	
G7 1096	BROCKWAY SUMMIT	7200	SEC 03	T16N	R17E	K M	39	16		120	04		903		1961		29	
A7 1133	BRUSHY SPRINGS GUARD STATION	4880	SEC 06	T13N	R13E	M M	39	00	20	120	34	40	000		1951		31	
A1 1238	BUTTE LAKE	6060	SEC 10	T31N	R06E	F M	40	33	48	121	18	06	900	041237	1960		18	
A5 1348	CAMEL PEAK	5560	SEC 32	T22N	R08E	H M	39	43	26	121	05	58	000		1967		32	
G3 1644	CHAMPS FLAT	5590	SEC 27	T33N	R09E	M M	40	41	42	120	57	30	000		1959		18	
A5 1783	CLARKS PEAK 1 NE	5910	SEC 10	T27N	R13E	H M	40	12	50	120	29	34	000		1958		32	
A5 1845-32	CLOVER VALLEY	5500	SEC 07	T24N	R14E	R M	39	56	40	120	27	00	000		1965		32	
A1 2320	DEAD HORSE RESERVOIR 2 SE	5075	SEC 35	T45N	R12E	L M	41	42	00	120	33	00	000		1959		25	
A4 2335	DEER CREEK FLAT	1910	SEC 14	T25N	R01E	J M	40	01	16	121	49	34	419	PN2335	1960		52	
A4 2416	DEWITT PEAK 2 WSW	1480	SEC 33	T27N	R01W	R M	40	08	43	121	58	23	419		1960		52	
G2 2460	DODGE RESERVOIR 3 NNE	6400	SEC 11	T36N	R16E	C M	41	00	30	120	07	30	000		1959		18	
A7 3153	FORNI RIDGE	7600	SEC 16	T11N	R16E	M	38	48		120	13		814		1966		09	
A7 3388	GERLE CREEK CAMP	5400	SEC 11	T13N	R14E	L M	38	59	06	120	22	45	000		1945		09	
A5 3549-32	GRANITE SPRING	5765	SEC 13	T26N	R14E	J M	40	06	23	120	20	34	000		1965		32	
B2 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q M	38	29	48	119	47	48	000	003954	1960		02	
A4 4019	HOGBACK ROAD	1320	SEC 05	T27N	R01W	F M	40	13	27	122	00	03	419		1960		52	
A1 4815	LASSEN CREEK UPPER	6775	SEC 21	T45N	R15E	R M	41	45		120	14	42	000		1958		25	
A5 4932	LIGHTS CREEK	5320	SEC 02	T27N	R11E	F M	40	13	48	120	42	30	000		1959		32	
A5 4977	LITTLE LAST CHANCE VALLEY	5730	SEC 05	T24N	R16E	M M	39	57	40	120	13	00	000		1959		32	
A3 5043	LOG SPRING	5050	SEC 29	T23N	R08W	D M	39	49	36	122	47	29	903		1964		52	
A1 5081-01	LONG BELL STATION	4375	SEC 20	T42N	R05E	B M	41	28	00	121	25	00	000		1958		25	
G7 5163	LOWER MEADOW	5760	SEC 25	T20N	R17E	A M	39	33	42	120	01	54	911		1957	1972	46	
B1 5189	LUMBERYARD	6480	SEC 15	T08N	R15E	F M	38	32	55	120	18	24	000		1967		09	
A4 5444	MCCARTHY POINT	3800	SEC 19	T27N	R03E	M	40	11	00	121	41	00	900		1945		52	
A1 5505	MEDICINE LAKE	6725	SEC 10	T43N	R03E	C M	41	35	00	121	37	00	900		1946		47	
A5 5956	MT HOUGH SNOWCOURSE	6760	SEC 08	T25N	R10E	J M	40	02	29	120	52	43	000		1964		32	
A2 5982	MT SHASTA SLOPE	7500	SEC 30	T41N	R03W	Q M	41	22	00	122	16	00	900		1947		47	
A3 6212	NOEL SPRING	5000	SEC 05	T19N	R07W	B M	39	32	16	122	40	03	903		1964		11	
A5 6452	ONION VALLEY	6530	SEC 05	T22N	R10E	G M	39	48	00	120	53	06	000		1959		32	
A1 6750	PATTERSON MEADOW	7000	SEC 29	T39N	R16E	M	41	11	00	120	12	00	000		1958		25	
A1 6803	PEPPERDINES CAMP	6650	SEC 28	T42N	R15E	F M	41	26	30	120	14	00	000		1958		25	
A7 7492	ROBERTSON FLAT	6740	SEC 11	T15N	R13E	N M	39	09	26	120	30	06	000		1946		31	
A3 7637	SADDLE CAMP RANGER STATION	3850	SEC 30	T27N	R08E	M	40	10	00	122	48	00	900		1945		52	
A2 8591	STOUTS MEADOW	5300	SEC 01	T38N	R01W	B M	41	10	00	121	56	00	900		1946		45	
A5 8716	SWAIN MOUNTAIN	6160	SEC 20	T30N	R08E	J M	40	26	40	121	06	00	000		1957		32	
A1 8718	SWEAGERT FLAT	6000	SEC 11	T39N	R10E	F M	41	14		120	47	30	000		1958		25	
A7 8881	THE CEDARS	5900	SEC 13	T16N	R14E	L M	39	15	00	120	21	12	000		1945		31	
A5 8909	THREE MILE VALLEY	5900	SEC 36	T24N	R12E	A M	39	54	05	120	34	15	000		1959		32	
A3 9037	TROUGH SPRING	4000	SEC 28	T17N	R07W	L M	39	17	48	122	39	11	903		1964		06	
A4 9098	TWENTY MILE HOLLOW	2800	SEC 07	T26N	R02E	F M	40	07	33	121	48	12	000		1960		52	
A7 9597	WESTVILLE	5290	SEC 05	T15N	R12E	J M	39	10	30	120	39	08	000		1948		31	
A7 9816	WRIGHTS LAKE	6950	SEC 32	T12N	R16E	J M	38	50	30	120	14	02	900		1946		09	

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

Station	Agency	1972-73 Season		
		Measurement Period	Precipitation in Inches	
SACRAMENTO RIVER BASIN				
PIT RIVER A1				
BLACKS MOUNTAIN	DWR Northern District	7-18-72	6-25-73	24.14
BUTTE LAKE	DWR Northern District	7- 2-72	7- 2-73	32.80
DEAD HORSE RESERVOIR 2 SE	DWR Northern District	7-20-72	6-27-73	12.50
LASSEN CREEK UPPER	DWR Northern District	7-20-72	6-27-73	19.48
LONG BELL STATION	DWR Northern District	7-13-72	6-21-73	25.11
MEDICINE LAKE	DWR Northern District	7-13-72	6-21-73	41.57
PATTERSON MEADOW	DWR Northern District	7-19-72	6-26-73	27.68
PEPPERDINES CAMP	DWR Northern District	7-19-72	6-26-73	26.14
SWEAGERT FLAT	DWR Northern District	7-18-72	6-25-73	26.16
SHASTA LAKE A2				
MT. SHASTA SLOPE	DWR Northern District	7-12-72	6-19-73	64.18
STOUTS MEADOW	DWR Northern District	7-13-72	6-20-73	86.99
SACRAMENTO VALLEY WESTSIDE A3				
ALDER SPRINGS	COE Sacramento District	8-14-72	8-23-73	39.60
BALL MOUNTAIN LOOKOUT	DWR Northern District	7-25-72	6-14-73	52.48
LOG SPRING	COE Sacramento District	10-10-72	8-22-73	36.70
NOEL SPRING	COE Sacramento District	8-14-72	8-23-73	52.40
SADDLE CAMP RANGER STATION	DWR Northern District	7-24-72	6-13-73	34.34
TROUGH SPRING	COE Sacramento District	8-15-72	8-24-73	50.95
SACRAMENTO VALLEY NORTHEAST A4				
DEER CREEK FLAT	DWR Northern District	7-26-72	6-11-73	43.31
DeWITT PEAK 2 WSW	DWR Northern District	7-26-72	6-11-73	35.04
HOGBACK ROAD	DWR Northern District	7-28-72	6-13-73	36.06
McCARTHY POINT	DWR Northern District	7-27-72	6-12-73	49.93
TWENTY MILE HOLLOW	DWR Northern District	7-27-72	6-12-73	36.03
FEATHER RIVER A5				
BOULDER CREEK GUARD STATION	DWR Central District	9-26-72	9-19-73	22.07
CAMEL PEAK	DWR Central District	9-25-72	9-17-73	71.55
CLARKS PEAK 1 NE	DWR Central District	9-26-72	9-19-73	22.21
CLOVER VALLEY	DWR Central District	10-24-72	9-20-73	17.36
GRANITE SPRING	DWR Central District	9-27-72	9-19-73	15.92
LIGHTS CREEK	DWR Central District	10-23-72	9-18-73	27.45
LITTLE LAST CHANCE VALLEY	DWR Central District	9-27-72	9-20-73	14.59
MT. HOUGH SNOWCOURSE	DWR Central District	10-23-72	9-18-73	49.24
ONION VALLEY	DWR Central District	9-25-72	9-17-73	65.44
SWAIN MOUNTAIN	DWR Central District	9-26-72	9-18-73	38.17
THREE MILE VALLEY	DWR Central District	10-24-72	9-20-73	33.85
AMERICAN RIVER A7				
BRUSHY SPRINGS GUARD STATION	Placer County Water Agency	9-19-72	10-16-73	64.14
FORNI RIDGE	DWR Snow Surveys	10- 4-72	8-26-73	45.74
GERLE CREEK CAMP	Sacramento Muni. Utility Dist.	9-19-72	9- 9-73	60.27
ROBERTSON FLAT	Placer County Water Agency	9-20-72	10-16-73	88.23
THE CEDARS	DWR Central District	9-20-72	10- 5-73	66.96
WESTVILLE	Placer County Water Agency	9-20-72	10-16-73	70.04
WRIGHTS LAKE	Sacramento Muni. Utility Dist.	9-25-72	9- 9-73	67.83
SAN JOAQUIN RIVER BASIN				
COSUMNES RIVER B1				
LUMBERYARD	DWR Central District	9-28-72	10-30-73	63.61
MOKELUMNE-CALAVERAS RIVERS B2				
HIGHLAND LAKES	DWR San Joaquin District	7-12-72	6-29-73	39.80
NORTH LAHONTAN AREA				
MADELINE PLAINS G2				
DODGE RESERVOIR 3 NNE	DWR Northern District	7-19-72	6-26-73	15.52
EAGLE LAKE G3				
CHAMPS FLAT	DWR Northern District	7-18-72	6-25-73	16.71
TRUCKEE RIVER G7				
BROCKWAY SUMMIT	COE Sacramento District	9-29-72	11- 7-73	37.70
LOWER MEADOW	USFS Inter Mountain	9-29-72	--	Discontinued

APPENDIX B

SURFACE WATER MEASUREMENTS

This appendix contains surface water data for the 1973 water year, which is from October 1, 1972, to September 30, 1973. The data consists of unimpaired runoff; daily mean discharges; daily mean gage heights, maximum and minimum gage heights; elevations of daily tides; gaging station locations; diversion quantities; water imported to the report area; water exported from the report area; summary of water supply and utilization for the Sacramento-San Joaquin Delta; streamflow measurements at miscellaneous locations; corrections and revisions to previously published reports; and contents and inflow for major reservoirs.

Each station in this appendix has been assigned an identification number. The first two digits denote the hydrographic unit as shown below. The remaining digits further identify the station.

<u>Sacramento River Basin</u>	<u>San Joaquin River Basin</u>	<u>North Lahontan Area</u>
A0 Sacramento Valley Floor	B0 San Joaquin Valley Floor	G1 Surprise Valley
A1 Pit River	B1 Cosumnes River	G2 Madeline Plains
A2 Shasta Lake	B2 Mokelumne-Calaveras Rivers	G3 Eagle Lake
A3 Sacramento Valley Westside	B8 San Joaquin Valley Westside	G4 Susan River
A4 Sacramento Valley Northeast	B9 Sacramento- San Joaquin Delta	G5 Smoke River
A5 Feather River		G6 Herlong
A6 Yuba-Bear Rivers		G7 Truckee River
A7 American River	<u>San Francisco Bay Area</u>	G8 Carson River
A8 Cache Creek		G9 Walker River
A9 Putah Creek	E0 San Francisco Bay	

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract or through cooperative arrangements with other local or governmental agencies. The data published in the following reports together with this report present a comprehensive analysis of water resources for the area:

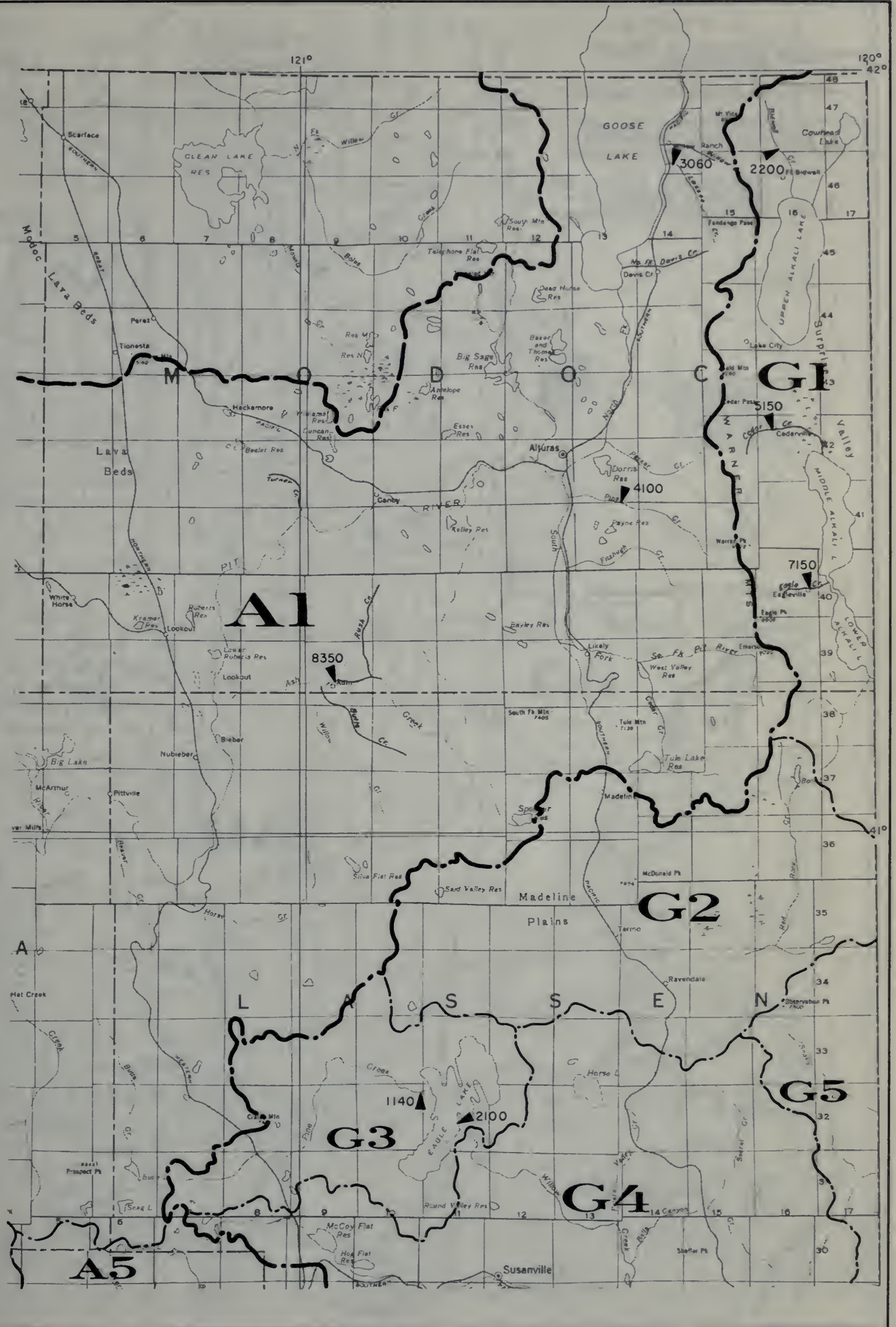
1. "Water Resources Data for California, Part 1: Surface Water Records, Volume 2: Northern Great Basin and Central Valley". U. S. Department of the Interior, Geological Survey.

2. "Annual Report of Operations, Central Valley Operations Office, Water and Power Control Division". U. S. Department of the Interior, Bureau of Reclamation.

3. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.

4. Bulletin No. 132, "The California State Water Project". Department of Water Resources.

5. Bulletin No. 157, "Index of Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.



SURFACE WATER MEASUREMENT STATIONS 1972-73

LEGEND

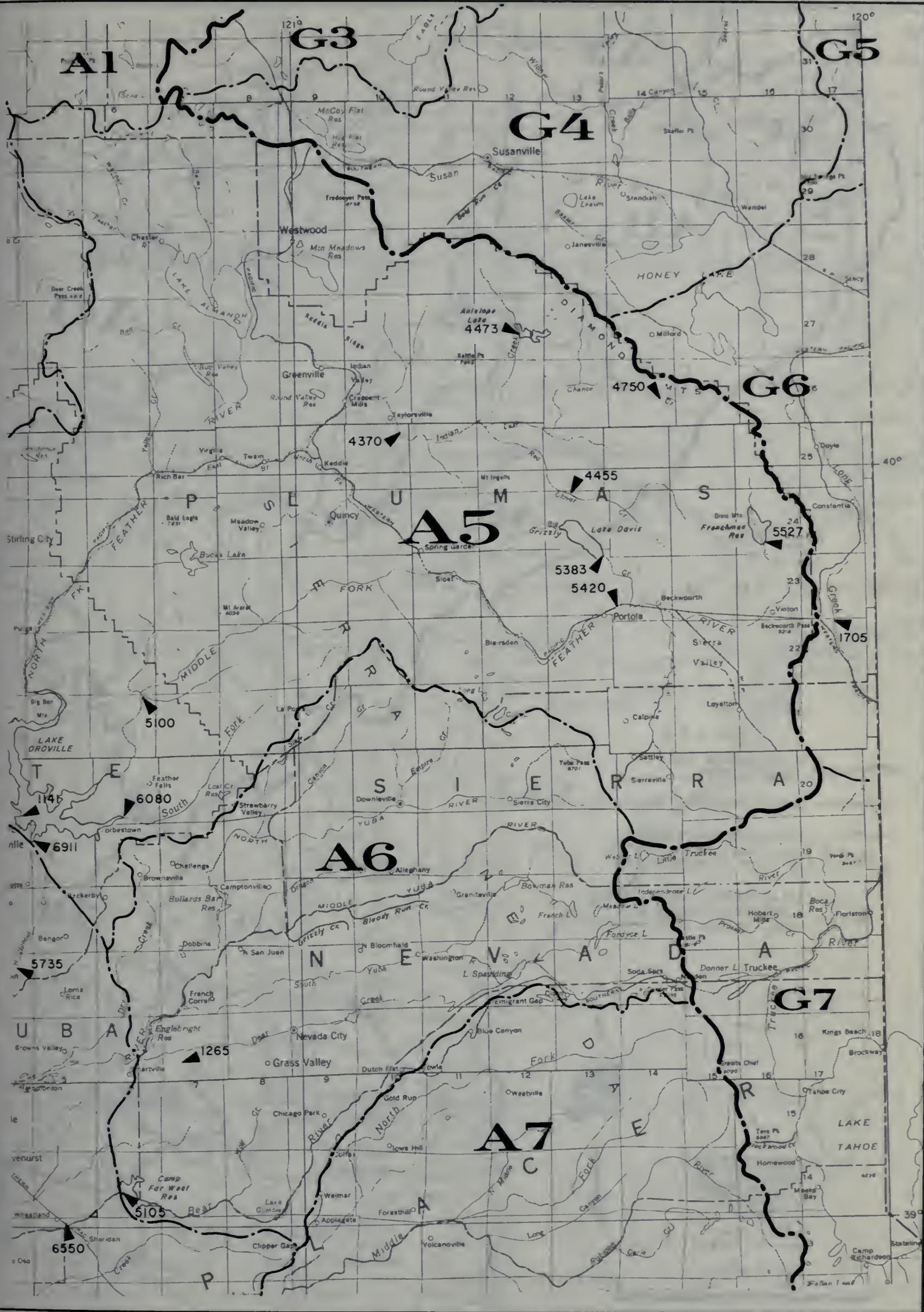
- BOUNDARY OF AREA OF INVESTIGATION
- MAJOR DRAINAGE BOUNDARY
- HYDROGRAPHIC BOUNDARY AND FIRST TWO SYMBOLS OF STATION CODE NUMBER
- MEASUREMENT STATION AND LAST FOUR SYMBOLS OF THE STATION CODE NUMBER



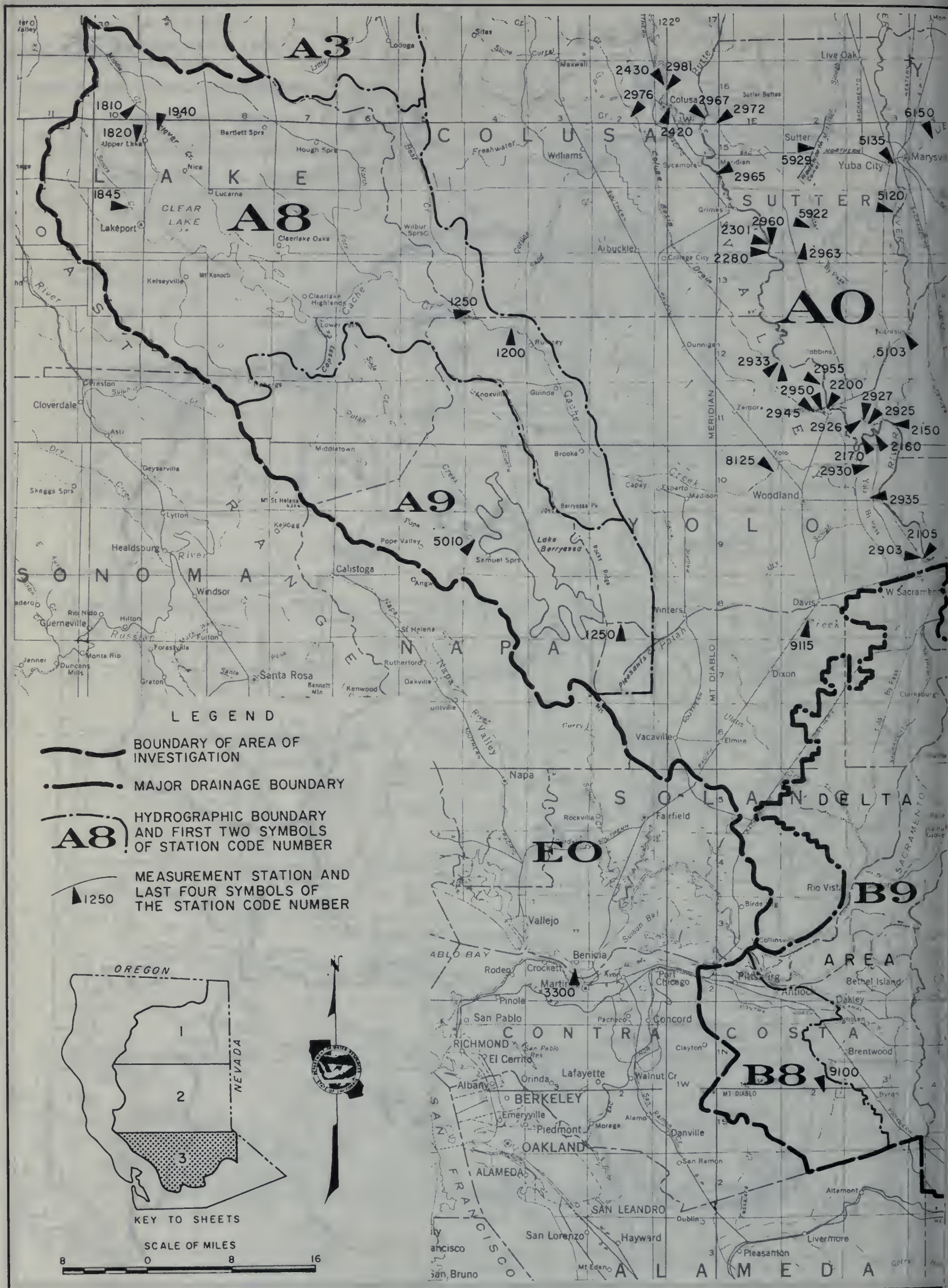
SCALE OF MILES



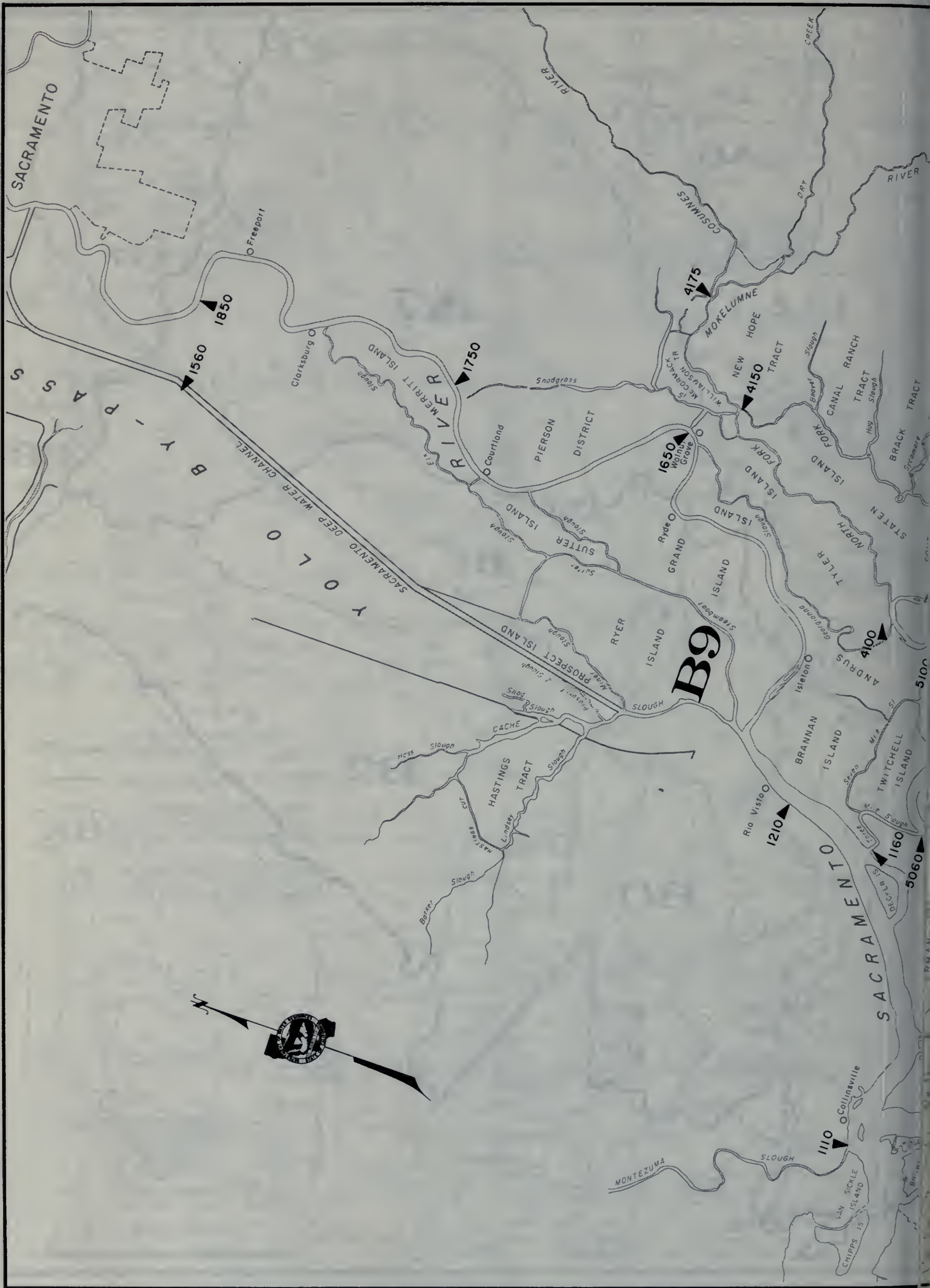
SURFACE WATER MEASUREMENT STATIONS 1972-73



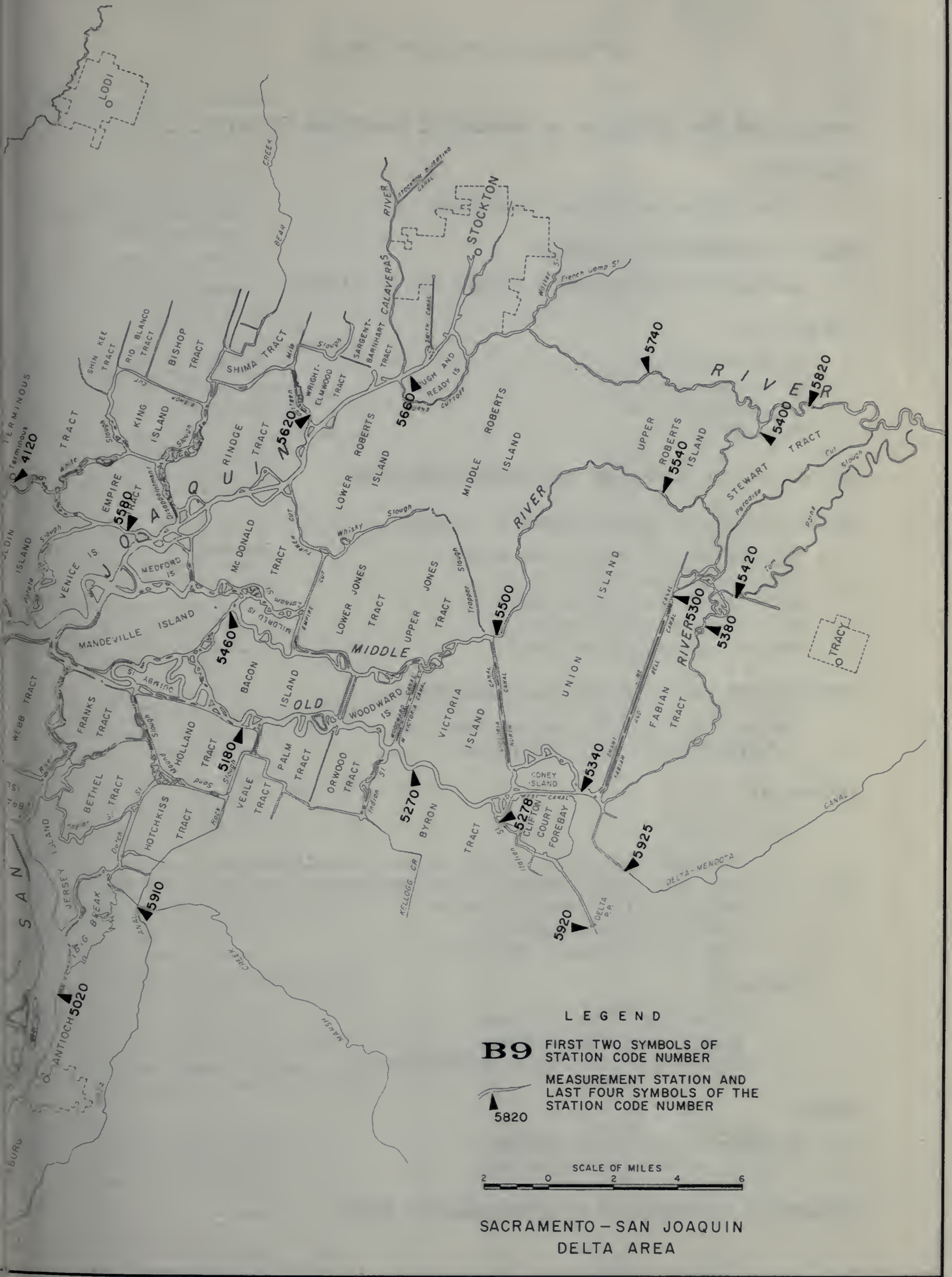
SURFACE WATER MEASUREMENT STATIONS 1972-73



SURFACE WATER MEASUREMENT STATIONS 1972-73



SURFACE WATER MEASUREMENT STATIONS 1972-73



SURFACE WATER MEASUREMENT STATIONS 1972-73

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	Station Code Number	Streamflow and Station Description	Stage, Tide, Cresta, and Station Description
		Page	Page
American River at Fair Oaks	A07175		139
American River at Sacramento	A07140		156
Ash Creek at Adin	A18350	44	
Bear Creek near Lodi	B02010	111	
Bear Creek near Rumsey	A81250	98	
Bear River near Wheatland	A06550		139
Bidwell Creek near Fort Bidwell	G12200	122	
Big Chico Creek at Chico	A04250	53	
Burney Creek near Burney	A15150	45	
Butte Creek near Durham	A04265	60	
Butte Slough near Meridian	A02972	72	139
Butte Slough at Outfall Gates	A02967	63	
Cache Creek above Rumsey	A81200	99	
Cache Creek at Yolo	A08125		139
Calaveras River near Stockton	B02520	108	
California Aqueduct at Delta Pumping Plant	B95920	120	
Cedar Creek near Cedarville	G15150	123	
Cherokee Canal near Richvale	A02984	62	138
Clover Creek Bypass near Upper Lake	A81940	97	
Colusa Basin Drain at Highway 20	A02976	68	138
Colusa Basin Drain at Knights Landing	A02945	69	138
Colusa Weir Spill to Butte Basin	A02981	58	
Contra Costa Canal near Oakley	B95910	119	
Cosumnes River at McConnell	B01125	116	140
Cosumnes River at Michigan Bar	B11150		140
Cottonwood Creek, North Fork, near Igo	A03545	46	
Cottonwood Creek, South Fork, near Cottonwood	A03595	47	
Deer Creek near Sloughhouse	B01580	115	
Delta-Mendota Canal near Tracy	B95925	118	
Dry Creek near Galt	B01520	114	
Dry Creek at Roseville	A00047	93	
Duck Creek near Stockton	B02835	107	
Duck Creek Diversion near Farmington	B02920	104	
Eagle Creek at Eagleville	G17150	124	
Eagle Lake near Susanville	G32100		159
Feather River near Gridley	A05165	88	149
Feather River, Middle Fork, near Merrimac	A55100	83	
Feather River, Middle Fork, near Portola	A55420	78	
Feather River at Nicolaus	A05103		152
Feather River at Oroville	A05191	86	148
Feather River below Shanghai Bend	A05120	91	151
Feather River, South Fork, at Ponderosa Dam	A56080	84	
Feather River at Yuba City	A05135		150
Feather River, West Branch, near Paradise	A52250	82	
Fremont Weir Spill to Yolo Bypass	A02930	71	
French Camp Slough near French Camp	B02805	106	
Georgiana Slough at Mokelumne River	B94100		214
Grantline Canal at Tracy Road Bridge	B95300		202
Grindstone Creek near Elk Creek	A31302	55	
Indian Creek near Taylorsville	A54370	81	
Italian Slough near Mouth	B95278		200
Lassen Creek near Willow Ranch	A13060	42	
Last Chance Creek at Dixie Refuge Damsite	A54750	80	
Lindo Channel near Chico	A00615	54	
Little Chico Creek near Chico	A04280	61	
Little Chico Creek Diversion near Chico	A04910	59	
Littlejohn Creek at Farmington	B02870	105	
Little Potato Slough at Terminus	B94120		212
Long Valley Creek near Hallelujah Junction	G61705	126	
Marsh Creek near Byron	B89100	121	
Middle Creek near Upper Lake	A81810	95	
Middle River at Bacon Island	B95460		192
Middle River at Borden Highway	B95500		190
Middle River at Mowry Bridge	B95540		188
Mokelumne River at Woodbridge	B02105	112	140
Mokelumne River near Thornton	B94175		208
Mokelumne River, South Fork, at New Hope Bridge	B94150		210
Mormon Slough at Bellota	B02560	109	
Morrison Creek near Sacramento	A00020	117	
Moulton Weir Spill to Butte Basin	A02986	57	
Mud Creek near Chico	A04242	51	

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Mud Creek Diversion at Chico	A00928		52		
North Honcut Creek near Bangor	A05735		89		
Old River near Byron	B95270				204
Old River at Clifton Court Ferry	B95340				198
Old River at Head	B95400				178
Old River near Rock Slough	B95180				206
Old River near Tracy Road Bridge	B95380				194
Palermo Canal at Oroville Dam	A56911		85		
Pine Creek near Alturas	A14100		43		
Pine Creek at Eagle Lake near Susanville	G31140		125		
Pope Creek near Pope Valley	A95010		100		
Putah Creek near Winters	A91250				140
Putah Creek, South Fork, near Davis	A09115		101		
Reclamation District 70 Drainage to Sacramento River	A02965		64		
Reclamation District 108 Drainage to Sacramento River	A02933		66		
Reclamation District 787 Drainage to Colusa Basin Drain	A02950		70		
Reclamation District 787 Drainage to Sacramento River	A02955		67		
Reclamation District 1500 Drainage to Sacramento Slough	A02926		76		
Reclamation District 1660 Drainage to Sutter Bypass	A05922		74		
Reclamation District 1660 Drainage to Tisdale Bypass	A02963		75		
Red Bank Creek near Red Bluff	A03460		48		
Red Clover Creek above Abbey Bridge Damsite	A54455		79		
Sacramento River above Bend Bridge near Red Bluff	A02788				137
Sacramento River at Butte City	A02500				137
Sacramento River at Collinsville	B91110				174
Sacramento River at Colusa	A02420				138
Sacramento River at Colusa Weir	A02430				143
Sacramento River near Freeport	B91850				162
Sacramento River at Fremont Weir, East End	A02160				147
Sacramento River at Fremont Weir, West End	A02170				146
Sacramento River at Hamilton City	A02630		50		137
Sacramento River at Keswick	A21010				137
Sacramento River at Knights Landing	A02200				138
Sacramento River at Moulton Weir	A02445				141
Sacramento River opposite Moulton Weir	A02450				142
Sacramento River at Ord Ferry	A02570		56		137
Sacramento River at Rio Vista	B91210				170
Sacramento River at Sacramento	A02100		94		155
Sacramento River at Sacramento Weir	A02105				154
Sacramento River at Snodgrass Slough	B91750				164
Sacramento River at Tisdale Weir	A02301				144
Sacramento River at Verona	A02150				153
Sacramento River at Vina Bridge	A02700		49		137
Sacramento River at Walnut Grove	B91650				166
Sacramento River below Wilkins Slough	A02280				138
Sacramento Slough at Sacramento River	A02925		77		
Sacramento Weir Spill to Yolo Bypass	A02903		92		
San Joaquin River at Antioch	B95020				220
San Joaquin River at Brandt Bridge	B95740				180
San Joaquin River at Mossdale Bridge	B95820				176
San Joaquin River at Rindge Pump	B95620				184
San Joaquin River at San Andreas Landing	B95100				216
San Joaquin River at Venice Island	B95580				186
San Joaquin River near Vernalis	B07020		103		158
Scotts Creek at Eickhoff Road near Lakeport	A81845		96		
Scotts Creek at Upper Lake	A81820				157
Squirrel Creek near Penn Valley	A61265		90		
Stockton Diverting Canal at Stockton	B02580		110		
Stockton Ship Channel at Burns Cutoff	B95660				182
Suisun Bay at Benicia	E03300				222
Sutter Bypass at Reclamation District 1500 Pumping Plant	A02927				145
Sutter Creek near Sutter Creek	B21160		113		
Thermalito Afterbay Release to Feather River near Oroville	A05975		87		
Threemile Slough at Sacramento River	B91160				172
Threemile Slough at San Joaquin River	B95060				218
Tisdale Weir Spill to Sutter Bypass	A02960		65		
Tom Paine Slough above Mouth	B95420				196
Wadsworth Canal near Sutter	A05929		73		139
Yolo Bypass near Lisbon	B91560				168
Yolo Bypass near Woodland	A02935		102		140
Yuba River near Marysville	A06150				139

HYDROGRAPHIC AREA CODE NUMBER INDEX TO
SURFACE WATER MEASUREMENT STATIONS

Streamflow
and Station
Description

Daily Stage,
Major Crests,
Reservoirs,
and Station
Description

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Code
Number

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HYDROGRAPHIC AREA A

Sacramento Valley Floor

A00020	Morrison Creek near Sacramento	117	-
0047	Dry Creek at Roseville	93	-
0615	Lindo Channel near Chico	54	-
0928	Mud Creek Diversion at Chico	52	-
2100	Sacramento River at Sacramento	94	155
A02105	Sacramento River at Sacramento Weir	-	154
2150	Sacramento River at Verona	-	153
2160	Sacramento River at Fremont Weir, East End	-	147
2170	Sacramento River at Fremont Weir, West End	-	146
2200	Sacramento River at Knights Landing	-	138
A02280	Sacramento River below Wilkins Slough	-	138
2301	Sacramento River at Tisdale Weir	-	144
2420	Sacramento River at Colusa	-	138
2430	Sacramento River at Colusa Weir	-	143
2445	Sacramento River at Moulton Weir	-	141
A02450	Sacramento River opposite Moulton Weir	-	142
2500	Sacramento River at Butte City	-	137
2570	Sacramento River at Ord Ferry	56	137
2630	Sacramento River at Hamilton City	50	137
2700	Sacramento River at Vina Bridge	49	137
A02788	Sacramento River above Bend Bridge near Red Bluff	-	137
2903	Sacramento Weir Spill to Yolo Bypass	92	-
2925	Sacramento Slough at Sacramento River	77	-
2926	Reclamation District 1500 Drainage to Sacramento Slough	76	-
2927	Sutter Bypass at Reclamation District 1500 Pumping Plant	-	145
A02930	Fremont Weir Spill to Yolo Bypass	71	-
2933	Reclamation District 108 Drainage to Sacramento River	66	-
2935	Yolo Bypass near Woodland	102	140
2945	Colusa Basin Drain at Knights Landing	69	138
2950	Reclamation District 787 Drainage to Colusa Basin Drain	70	-
A02955	Reclamation District 787 Drainage to Sacramento River	67	-
2960	Tisdale Weir Spill to Sutter Bypass	65	-
2963	Reclamation District 1660 Drainage to Tisdale Bypass	75	-
2965	Reclamation District 70 Drainage to Sacramento River	64	-
2967	Butte Slough at Outfall Gates	63	-
A02972	Butte Slough near Meridian	72	139
2976	Colusa Basin Drain at Highway 20	68	138
2981	Colusa Weir Spill to Butte Basin	58	-
2984	Cherokee Canal near Richvale	62	138
2986	Moulton Weir Spill to Butte Basin	57	-
A03460	Red Bank Creek near Red Bluff	48	-
3545	Cottonwood Creek, North Fork, near Igo	46	-
3595	Cottonwood Creek, South Fork, near Cottonwood	47	-
4242	Mud Creek near Chico	51	-
4250	Big Chico Creek at Chico	53	-
A04265	Butte Creek near Durham	60	-
4280	Little Chico Creek near Chico	61	-
4910	Little Chico Creek Diversion near Chico	59	-
5103	Feather River at Nicolaus	-	152
5120	Feather River below Shanghai Bend	91	151
A05135	Feather River at Yuba City	-	150
5165	Feather River near Gridley	88	149
5191	Feather River at Oroville	86	148
5735	North Honcut Creek near Bangor	89	-
5922	Reclamation District 1660 Drainage to Sutter Bypass	74	-
A05929	Wadsworth Canal near Sutter	73	139
5975	Thermalito Afterbay Release to Feather River near Oroville	87	-
6150	Yuba River near Marysville	-	139
6550	Bear River near Wheatland	-	139
7140	American River at Sacramento	-	156
A07175	American River at Fair Oaks	-	139
8125	Cache Creek at Yolo	-	139
9115	Putah Creek, South Fork, near Davis	101	-

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(Continued)

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<u>Pit River</u>					
A13060	Lassen Creek near Willow Ranch	42	-	-	-
4100	Pine Creek near Alturas	43	-	-	-
5150	Burney Creek near Burney	45	-	-	-
8350	Ash Creek at Adin	44	-	-	-
<u>Shasta Lake</u>					
A21010	Sacramento River at Keswick	-	137	-	137
1051	Inflow to Shasta Lake	-	230	-	230
<u>Sacramento Valley Westside</u>					
A31302	Grindstone Creek near Elk Creek	55	-	-	-
6171	Inflow to Whiskeytown Lake	-	231	-	231
<u>Feather River</u>					
A51141	Lake Oroville near Oroville	-	227	-	227
2250	Feather River, West Branch, near Paradise	82	-	-	-
4370	Indian Creek near Taylorsville	81	-	-	-
4455	Red Clover Creek above Abbey Bridge Damsite	79	-	-	-
4473	Antelope Lake near Boulder Creek Guard Station	-	226	-	226
A54750	Last Chance Creek at Dixie Refuge Damsite	80	-	-	-
5100	Feather River, Middle Fork, near Merrimac	83	-	-	-
5383	Lake Davis near Portola	-	225	-	225
5420	Feather River, Middle Fork, near Portola	78	-	-	-
5527	Frenchman Lake near Chilcoot	-	224	-	224
A56080	Feather River, South Fork, at Ponderosa Dam	84	-	-	-
6911	Palermo Canal at Oroville Dam	85	-	-	-
<u>Yuba-Bear Rivers</u>					
A61265	Squirrel Creek near Penn Valley	90	-	-	-
5105	Camp Far West Reservoir near Sheridan	-	228	-	228
<u>American River</u>					
A71120	Inflow to Folsom Lake	-	232	-	232
<u>Cache Creek</u>					
A81200	Cache Creek above Rumsey	99	-	-	-
1250	Bear Creek near Rumsey	98	-	-	-
1810	Middle Creek near Upper Lake	95	-	-	-
1820	Scotts Creek at Upper Lake	-	157	-	157
1845	Scotts Creek at Eickhoff Road near Lakeport	96	-	-	-
1940	Clover Creek Bypass near Upper Lake	97	-	-	-
<u>Putah Creek</u>					
A91250	Putah Creek near Winters	-	140	-	140
5010	Pope Creek near Pope Valley	100	-	-	-
HYDROGRAPHIC AREA B					
<u>San Joaquin Valley Floor</u>					
B01125	Cosumnes River at McConnell	116	140	-	140
1520	Dry Creek near Galt	114	-	-	-
1580	Deer Creek near Sloughhouse	115	-	-	-
2010	Bear Creek near Lodi	111	-	-	-
2105	Mokelumne River at Woodbridge	112	140	-	140
B02520	Calaveras River near Stockton	108	-	-	-
2560	Mormon Slough at Bellota	109	-	-	-
2580	Stockton Diverting Canal at Stockton	110	-	-	-
2805	French Camp Slough near French Camp	106	-	-	-
2835	Duck Creek near Stockton	107	-	-	-
B02870	Littlejohn Creek at Farmington	105	-	-	-
2920	Duck Creek Diversion near Farmington	104	-	-	-
7020	San Joaquin River near Vernalis	103	158	-	158

HYDROGRAPHIC AREA CODE NUMBER INDEX TO
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(Continued)

Station Code Number		Streamflow and Station Description	Page	Daily Stage, Major Crests, Reservoirs and Station Description	Page
HYDROGRAPHIC AREA B (Continued)					
<u>Cosumnes River</u>					
B11150	Cosumnes River at Michigan Bar	-		140	
<u>Mokelumne-Calaveras Rivers</u>					
B21160	Sutter Creek near Sutter Creek	113		-	
<u>San Joaquin Valley Westside</u>					
B89100	Marsh Creek near Byron	121		-	
<u>Sacramento-San Joaquin Delta</u>					
B91110	Sacramento River at Collinsville	-		174	
1160	Threemile Slough at Sacramento River	-		172	
1210	Sacramento River at Rio Vista	-		170	
1560	Yolo Bypass near Lisbon	-		168	
1650	Sacramento River at Walnut Grove	-		166	
B91750	Sacramento River at Snodgrass's Slough	-		164	
1850	Sacramento River near Freeport	-		162	
4100	Georgiana Slough at Mokelumne River	-		214	
4120	Little Potato Slough at Terminous	-		212	
4150	Mokelumne River, South Fork, at New Hope Bridge	-		210	
B94175	Mokelumne River near Thornton	-		208	
5020	San Joaquin River at Antioch	-		220	
5060	Threemile Slough at San Joaquin River	-		218	
5100	San Joaquin River at San Andreas Landing	-		216	
5180	Old River near Rock Slough	-		206	
B95270	Old River near Byron	-		204	
5278	Italian Slough near Mouth	-		200	
5300	Grantline Canal at Tracy Road Bridge	-		202	
5340	Old River at Clifton Court Ferry	-		198	
5380	Old River near Tracy Road Bridge	-		194	
B95400	Old River at Head	-		178	
5420	Tom Paine Slough above Mouth	-		196	
5460	Middle River at Bacon Island	-		192	
5500	Middle River at Borden Highway	-		190	
5540	Middle River at Mowry Bridge	-		188	
B95580	San Joaquin River at Venice Island	-		186	
5620	San Joaquin River at Rindge Pump	-		184	
5660	Stockton Ship Channel at Burns Cutoff	-		182	
5740	San Joaquin River at Brandt Bridge	-		180	
5820	San Joaquin River at Mossdale Bridge	-		176	
B95910	Contra Costa Canal near Oakley	119		-	
5920	California Aqueduct at Delta Pumping Plant	120		-	
5925	Delta-Mendota Canal near Tracy	118		-	
HYDROGRAPHIC AREA E					
<u>San Francisco Bay</u>					
E03300	Suisun Bay at Benicia	-		222	
HYDROGRAPHIC AREA G					
<u>Surprise Valley</u>					
G12200	Bidwell Creek near Fort Bidwell	122		-	
5150	Cedar Creek near Cedarville	123		-	
7150	Eagle Creek at Eagleville	124		-	
<u>Eagle Lake</u>					
G31140	Pine Creek at Eagle Lake near Susanville	125		-	
2100	Eagle Lake near Susanville	-		159	
<u>Herlong</u>					
G61705	Long Valley Creek near Hallelujah Junction	126		-	

TABLES B-1 AND B-2

UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there are: (1) no upstream controls such as dams or reservoirs; (2) no diversions or unnatural accretions; and (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement point.

TABLE B-1
ANNUAL UNIMPAIRED RUNOFF
In Percent of Average

	Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	San Joaquin River near Vernalis (a)
Average Annual Runoff (b)	23,229	7,950	17,072	4,286	2,266	2,570	704	5,453
1931-32	88	64	77	78	93	101	106	121
1932-33	55	58	52	47	48	49	60	62
1933-34	48	57	51	47	44	44	42	42
1934-35	102	94	97	100	99	100	100	118
1935-36	107	89	102	100	114	132	127	119
1936-37	88	75	78	74	82	91	99	120
1937-38	191	185	186	201	178	175	176	206
1938-39	49	55	48	43	40	41	48	53
1939-40	129	132	131	132	126	132	122	121
1940-41	154	180	159	151	138	122	119	146
1941-42	145	142	148	155	150	152	140	136
1942-43	127	107	124	131	138	151	143	134
1943-44	64	59	61	67	62	57	63	72
1944-45	96	84	88	87	93	98	110	121
1945-46	103	101	103	98	106	111	106	105
1946-47	61	64	61	59	60	55	56	63
1947-48	89	96	92	90	89	87	90	77
1948-49	70	76	70	61	66	72	73	70
1949-50	85	72	85	90	98	104	107	84
1950-51	135	114	134	133	156	180	165	133
1951-52	169	145	168	186	182	194	188	171
1952-53	108	122	118	122	113	103	97	80
1953-54	90	117	102	99	85	78	75	79
1954-55	64	71	64	58	57	61	62	64
1955-56	176	167	175	186	175	181	177	178
1956-57	85	90	87	85	86	83	85	79
1957-58	168	190	174	163	156	159	151	153
1958-59	66	85	71	67	55	48	53	55
1959-60	71	81	76	75	75	65	59	54
1960-61	62	90	70	62	50	41	40	39
1961-62	92	94	89	85	85	80	91	103
1962-63	130	125	135	146	145	138	124	115
1963-64	62	66	64	60	65	63	61	58
1964-65	151	130	150	162	171	174	170	149
1965-66	75	92	76	67	63	54	65	73
1966-67	151	132	141	147	146	154	162	183
1967-68	73	87	80	81	69	66	58	54
1968-69	172	149	154	166	144	160	189	223
1969-70	131	148	140	142	129	123	126	102
1970-71	120	136	130	131	126	116	111	89
1971-72 (c)	75	83	78	74	75	72	73	65
1972-73 (c)	118	122	118	112	118	114	111	118

(a) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(b) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(c) Preliminary data subject to revision.

Table B-2

MONTHLY UNIMPAIRED RUNOFF

In Percent of Average

		Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	San Joaquin River near Vernalis (a)
October 1972	Percent	127	130	126	122	135	87	84	135
	Average	508	292	459	107	34	25	4	45
November 1972	Percent	142	163	153	123	188	121	67	83
	Average	887	425	751	170	80	75	17	119
December 1972	Percent	98	98	100	90	120	112	99	81
	Average	1,907	837	1,615	378	201	199	39	253
January 1973	Percent	168	164	173	154	208	213	165	133
	Average	2,430	1,106	2,086	464	246	269	45	300
February 1973	Percent	130	138	128	107	123	129	120	142
	Average	2,867	1,275	2,411	541	287	309	56	400
March 1973	Percent	116	130	117	111	105	100	96	114
	Average	2,887	1,093	2,315	576	295	351	72	500
April 1973	Percent	90	80	87	95	85	91	99	98
	Average	3,555	1,006	2,565	720	382	456	127	863
May 1973	Percent	131	99	117	130	118	122	144	153
	Average	3,888	684	2,285	658	425	518	195	1,408
June 1973	Percent	93	91	79	82	67	68	85	109
	Average	2,451	437	1,261	331	218	276	121	1,069
July 1973	Percent	78	109	84	68	49	36	43	72
	Average	962	297	569	153	55	64	22	370
August 1973	Percent	102	116	102	85	77	20	30	104
	Average	487	251	394	103	23	16	4	89
September 1973	Percent	135	120	143	212	143	134	0	66
	Average	400	247	362	85	19	12	2	36
1972-73 Water Year	Percent	118	122	118	112	118	114	111	118
	Average	23,229	7,950	17,072	4,286	2,266	2,570	704	5,453

The percent values are preliminary, subject to revision.

Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(a) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

SUMMARY OF WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA

This table presents in thousands of acre-feet the correlation of water supply and use for the Sacramento-San Joaquin Delta Service Area.

The Delta Service Area is a natural hydrographic subdivision which is comprised of two subareas. One is the Delta Lowlands which are those lands within a boundary located approximately at the 5-foot contour; the Delta Uplands are those lands outside the Delta Lowlands boundary which are served by water from the lowland channels.

The water supply available to the Delta Service Area is the sum of the measured inflow and the precipitation. The measured inflow is determined from 14 gaging stations listed in the table. The precipitation is determined by the Thiessen Balance Method for stations located at Davis, Galt, Rio Vista, Lodi, Brentwood, Stockton, and Tracy S. P. "Water Utilization" in the same table includes agricultural use, evaporation, exports through the California Aqueduct, Delta-Mendota and Contra Costa Canals, and diversion for the City of Vallejo. Agricultural use in the uplands is the average measured diversions for the 10-year period October 1960 through September 1970. Agricultural use in the lowlands is computed by unit values of consumptive use of the various crops, multiplied by the acreages. Unit values of consumptive use were derived from experimental work by the University of California and California Extension Service as reported in Bulletin No. 27, "Variations and Control of Salinity in Sacramento-San Joaquin Delta and Upper San Francisco Bays". Crop acreage values used in this table were determined from a survey made in 1960 and 1961.

TABLE B-3
SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA
(In Thousands of Acre-Feet)

Item	Record on Page No.	1972					1973							Water Year Total
		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
WATER SUPPLY														
<u>Measured Inflow</u>														
Sacramento River at Sacramento	94	989	1,381	1,686	3,697	3,624	3,175	1,230	1,009	889	933	991	1,041	20,645
Sacramento Weir Spill to Yolo Bypass	92	0	0	0	9	4	3	0	0	0	0	0	0	16
Yolo Bypass near Woodland	102	0	35	28	1,830	1,101	697	24	3	1	0	0	2	3,721
South Fork Putah Creek near Davis	101	0	3	1	16	13	46	16	2	1	1	1	0	100
Morrison Creek near Sacramento	117	1	2	1	9	6	3	0	0	0	0	0	0	22
Cosumnes River at McConnell	116	1	6	15	150	123	107	59	43	7	0	0	0	511
Dry Creek near Galt	114	0	1	2	50	62	38	9	2	0	0	0	0	164
Mokelumne River at Woodbridge	112	6	5	9	72	68	52	21	21	33	19	16	14	336
Bear Creek near Lodi	111	0	1	0	15	11	7	0	0	0	0	0	0	34
Calaveras River near Stockton	108	0	0	0	2	3	1	0	1	1	1	1	1	11
Stockton Diverting Canal at Stockton	110	0	0	0	34	103	43	0	0	0	0	0	0	180
French Camp Slough near French Camp	106	2	2	2	38	37	29	4	4	4	3	3	6	134
San Joaquin River near Vernalis	103	122	132	154	250	444	468	250	181	153	66	66	87	2,373
Marsh Creek near Byron	121	0	0	0	4	5	3	1	0	0	0	0	0	13
<u>Precipitation</u>		134	287	107	372	254	139	8	2	0	0	0	4	1,307
TOTAL WATER SUPPLY		1,256	1,855	2,005	6,548	5,858	4,811	1,622	1,268	1,089	1,023	1,078	1,155	29,567
WATER UTILIZATION														
<u>Consumptive Use in Delta Lowlands</u>		97	58	32	36	53	79	118	137	182	214	203	146	1,355
<u>Exportations</u>														
Delta-Mendota Canal	118	207	0	0	91	35	39	147	275	273	285	276	227	1,855
Contra Costa Canal	119	7	4	4	4	4	4	5	12	12	14	13	10	93
City of Vallejo	135	1	1	1	1	1	1	1	1	2	2	1	1	14
California Aqueduct	120	180	207	208	82	27	38	47	103	150	165	180	103	1,490
<u>Delta Uplands Diversions*</u>		23	4	3	1	1	12	34	60	69	80	74	47	408
*Measurement of Delta Uplands diversions was discontinued in 1970. Quantities shown are the 10-year average from 1961 through 1970.														
TOTAL WATER UTILIZATION		515	274	248	215	121	173	352	588	688	760	747	534	5,215

TABLE B-4

STREAMFLOW MEASUREMENTS
AT MISCELLANEOUS SITES

This table shows the discharge rate on various streams at locations other than those where continuous recorders are maintained.

TABLE B-4

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES

Stream	Location		Measurements	
	Latitude	Longitude	Date	Discharge (cfs)
Delta Cross Channel at Walnut Grove	38°14'22"	121°30'57"	5-16-73	2,128 (a,)
			to 5-17-73	2,112 (a,)
Delta Cross Channel at Walnut Grove	38°14'22"	121°30'57"	5-29-73	4,146 (a,)
			to 5-30-73	4,227 (a,)
Georgiana Slough near Walnut Grove	38°14'12"	121°31'04"	5-29-73	3,366 (a,)
			to 5-30-73	3,376 (a,)
Georgiana Slough near Walnut Grove	38°14'12"	121°31'04"	7-11-73	3,292 (a,)
			to 7-12-73	3,272 (a,)
Old River at Head	37°48'29"	121°19'46"	10- 5-72	1,096 (c)
Old River at Head	37°48'29"	121°19'46"	9-13-73	1,179 (a,)
			t 9-14-73	1,161 (a,)
Sacramento River at Walnut Grove	38°14'32"	121°30'50"	1-16-73	41,870
			1-16-73	46,160
			1-16-73	45,900
			1-16-73	47,420
			1-16-73	48,520
San Joaquin River above Old River	37°48'27"	121°19'28"	10- 5-72	2,923 (c)

a The flows shown are mean cyclic flow for a tidal phase which approximates 24 hours and 50 minutes in time.

b The mean cyclic flow is toward the downstream direction of the channel.

c The flows shown are mean flows for a period of 8 hours from 0700 to 1500.

TABLE B-5
DAILY MEAN DISCHARGE

The streamflow table for each stream or stream system is arranged in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Feather River at Yuba City) or well-known landmark (San Joaquin River at Brandt Bridge).

The discharge estimated for periods of no record or invalid record are shown with the letter "E". Also qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

Daily Flows - Second-Feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

Monthly Means - Second-Feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

Yearly Totals - Acre-Feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

The streamflow data received from cooperating agencies do not necessarily adhere to the above criteria.

Daily flow data computed by machines is rounded as listed above. Monthly means, monthly acre-feet, and yearly totals are not rounded in these cases.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	413060	LASSEN CREEK NEAR WILLOW RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	2.2	2.2	2.6	3.5	4.4	6.9	13	42	15	3.9	1.6	1.0	1
2	2.2	2.2	2.8	3.8	4.4	7.1	15	40	14	3.8	1.5	1.0	2
3	2.2	2.4	2.8	3.5	4.4	6.5	14	39	14	3.6	1.6	0.9	3
4	2.2	2.4	2.8	3.5	4.4	6.8	16	45	13	3.5	1.5	0.9	4
5	2.2	2.4	2.8	3.5	4.4	7.5	20	45	12	3.3	1.5	0.8	5
6	2.2	2.4	2.8	3.7	4.4	7.4	25	41	11	3.1	1.5	0.8	6
7	2.2	2.4	2.8	3.7	4.8	6.7	26	38	10	3.1	1.5	0.8	7
8	2.2	2.4	2.8	3.7	5.1	6.7	27	36	9.8	2.6	1.4	0.9	8
9	2.2	2.4	2.8	3.7	5.1	6.8	33	36	9.3	2.6	1.4	0.9	9
10	2.2	2.4	2.8	3.7	5.9	10	37	35	9.1	2.6	1.4	0.8	10
11	2.2	2.4	3.1	3.7	5.3	12	40	34	8.9	2.5	1.4	0.8	11
12	2.2	2.4	3.1	3.7	5.1	9.9	43	34	8.2	2.5	1.3	0.8	12
13	2.2	2.4	3.1	3.7	5.2	8.7	43	34	8.3	2.4	1.2	0.8	13
14	2.2	2.4	3.1	4.0	5.5	8.5	45	34	8.2	2.3	1.1	0.8	14
15	2.2	2.4	3.1	4.0	5.5	7.9	41	33	7.8	2.2	1.1	0.8	15
16	2.2	2.4	3.1	4.0	5.5	8.2	41	32	7.5	2.1	1.1	0.8	16
17	2.2	2.4	3.1	4.0	5.2	8.9	45	30	7.7	2.1	1.1	0.8	17
18	2.2	2.4	3.1	4.0	5.9	8.2	39	29	7.3	2.1	1.1	0.8	18
19	2.2	2.6	3.1	4.0	6.3	8.2	36	28	6.9	2.1	1.0	1.2	19
20	2.2	2.6	3.3	4.0	4.9	8.5	33	26	6.3	2.1	1.0	2.8	20
21	2.2	2.6	3.3	4.0	4.7	8.6	32	24	5.9	2.3	1.0	1.7	21
22	2.2	2.6	3.3	4.2	4.3	8.6	34	22	5.7	2.2	1.0	1.2	22
23	2.2	2.6	3.3	4.2	4.4	8.5	35	21	5.8	2.1	1.0	1.7	23
24	2.2	2.6	3.3	4.2	4.8	9.5	37	28	5.7	2.1	1.0	3.0	24
25	2.2	2.6	3.3	4.2	5.2	11	39	26	5.0	1.9	1.1	2.4	25
26	2.2	2.6	3.3	4.2	5.6	12	43	21	4.9	1.8	1.1	1.4	26
27	2.2	2.6	3.3	4.2	6.3	13	46	19	4.5	1.8	1.1	1.2	27
28	2.2	2.6	3.3	4.2	7.1	13	48	18	4.3	1.7	1.0	1.1	28
29	2.2	2.6	3.5	4.2		12	47	17	4.1	1.7	1.0	1.1	29
30	2.2	2.6	3.5	4.2		13	45	16	3.9	1.6	0.9	1.1	30
31	2.2		3.5	4.4		14		18		1.6	0.9		31
MEAN	2.2	2.5	3.1	3.9	5.1	9.2	34.6	30.4	8.1	2.4	1.2	1.2	ME
MAX.	2.2	2.6	3.5	4.4	7.1	14.0	48.0	45.0	15.0	3.9	1.6	3.0	M
MIN.	2.2	2.2	2.6	3.5	4.3	6.5	13.0	16.0	3.9	1.6	0.9	0.8	M
AC. FT.	135	147	190	241	286	564	2059	1866	484	149	74	70	AC

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- == - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
8.7	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
	50	2.73	04 17 0315	0.0	0.05	04 01 1715	6266

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 53 02	120 20 27	SE27 47N 14E	392	7.64	1/23/70	JUN 61-DATE	JUNE 61-DATE	1961		0.00	LOCAL

Station located at U. S. Highway 395 culvert, approximately 2 mi. SE of Willow Ranch. Tributary to Goose Lake. Stage-discharge relationship affected by ice at times. Small amount of diversion above station. Drainage area is 25.7 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
IN CUBIC FEET PER SECOND

WATER YEAR	STATION NO.	STATION NAME
1973	A14100	PINE CREEK NEAR ALTURAS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16	17	16	16	36	16	19	32	57	22	17	13	1
2	15	16	16	16	35	15	30	33	56	21	16	13	2
3	15	16	15	16	34	15	26	33	54	20	16	13	3
4	15	22	13	16	33	15	19	36	51	20	16	13	4
5	15	21	11	16	32	14	18	35	48	19	16	13	5
6	15	17	9.1	16	31	15	19	35	46	19	16	13	6
7	15	18	7.0	16	29	15	19	37	45	19	16	12	7
8	16	21	5.0	16	28	14	19	41	43	19	16	12	8
9	17	18	5.0	17	27	14	20	44	43	18	16	12	9
10	16	19	5.0	17	26	17	21	45	43	18	15	12	10
11	16	18	5.0	17	25	31	22	47	43	18	15	12	11
12	17	16	5.0	17	24	27	24	50	42	18	15	12	12
13	17	16	5.0	17	23	22	25	58	41	17	15	12	13
14	17	17	5.0	17	22	20	31	67	40	17	15	12	14
15	17	19	5.0	17	21	27	34	74	38	17	14	12	15
16	17	17	6.1	17	19	29	28	89	37	17	14	12	16
17	17	15	7.0	18	18	21	35	96	36	18	14	12	17
18	16	17	8.1	19	17	18	27	103	34	18	14	12	18
19	16	17	9.1	20	16	16	23	109	33	17	14	12	19
20	16	19	10	21	16	16	21	107	31	17	14	14	20
21	16	19	11	22	15	16	20	104	30	18	14	12	21
22	16	14	12	23	15	17	21	94	29	18	14	12	22
23	16	17	13	25	15	16	22	84	28	17	14	13	23
24	16	18	14	26	15	15	24	81	27	17	14	14	24
25	16	17	15	27	15	15	26	81	26	17	14	13	25
26	16	19	16	29	15	16	30	71	25	16	14	12	26
27	16	18	16	30	16	16	34	67	24	14	14	12	27
28	16	17	16	32	16	16	35	61	23	14	14	12	28
29	15	16	16	33	15	15	34	56	23	15	13	11	29
30	14	15	16	36	17	17	33	58	22	16	13	11	30
31	17	16	16	37	21	21	21	58	16	16	13	11	31
MEAN	16.0	17.5	10.6	21.4	22.6	18.0	25.3	64.1	37.3	17.6	14.7	12.3	MEAN
MAX.	17.0	22.0	16.0	37.0	36.0	31.0	35.0	109	57.0	22.0	17.0	14.0	MAX.
MIN.	14.0	14.0	5.0	16.0	15.0	14.0	18.0	32.0	22.0	14.0	13.0	11.0	MIN.
TOTAL	982	1043	651	1313	1258	1105	1505	3939	2218	1085	902	734	TOTAL

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
23.1	117	2.08	05	19	2115	5.0	0.55	12	08	0000	16735

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 25 59	120 26 32	SW35 42N 13E	435	3.37	6/2/71	NOV 57-DATE	NOV 47-DATE	1957		0.00	LOCAL

Station located approximately 0.3 mi. N of Pine Creek Boulevard, 6.1 mi. SE of Alturas. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Station discontinued in October 1963, reinstalled April 16, 1964 at a site approximately 2,000 feet downstream. Flow affected by Pine Creek Reservoir. Drainage area is 23.9 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A18350	ASH CREEK AT ADIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	30	37	38	41	62	166	96	85	28	15	20	11	
2	32	37	38	43	62	145	94	78	23	16	20	12	
3	29	38	40	39	63	135	90	75	20	15	20	13	
4	28	80	39	30	67	126	92	82	18	14	19	14	
5	27	63	30	28	111	108	93	90	18	14	19	13	
6	27	44	28	32	149	104	95	79	18	16	20	13	
7	28	52	27	29	232	97	103	74	17	16	20	14	
8	29	62	26	31	151	93	110	67	17	16	20	14	
9	35	47	25	41	131	93	110	63	16	18	20	15	
10	37	49	25	44	152	118	109	60	16	14	20	15	
11	38	57	26	52	142	235	109	56	17	14	20	15	
12	35	50	28	105	175	187	109	53	16	16	20	15	
13	33	44	32	183	135	173	108	39	17	19	20	16	
14	31	43	37	117	145	140	121	39	16	17	20	17	
15	49	44	38	137	137	136	134	37	13	16	20	18	
16	49	44	44	579	120	139	129	41	17	17	20	18	
17	47	42	48	207	113	127	141	37	18	18	20	18	
18	51	41	185	162	103	108	131	33	19	17	20	18	
19	40	47	253	107	93	105	122	32	17	31	20	22	
20	37	61	149	79	92	104	114	28	15	27	20	32	
21	35	51	109	83	96	100	106	28	15	22	20	23	
22	35	46	309	65	101	103	104	26	15	22	15	23	
23	34	41	137	68	109	107	103	24	16	21	9.8	29	
24	34	41	215	69	124	97	104	28	17	21	13	30	
25	34	40	86	70	132	100	106	44	15	21	18	33	
26	35	41	71	61	137	98	105	36	15	20	22	24	
27	35	41	61	59	138	99	108	31	15	21	22	21	
28	35	41	59	61	165	93	110	23	14	21	20	19	
29	36	39	45	62	91	91	102	18	15	21	17	20	
30	35	39	49	69	99	99	92	20	15	21	14	20	
31	36		47	71		108		25		21	11		
MEAN	35.4	46.7	75.6	91.1	122	120	108	46.8	16.9	18.6	18.7	18.8	
MAX.	51.0	80.0	309	579	232	235	141	90.0	28.0	31.0	22.0	33.0	
MIN.	27.0	37.0	25.0	28.0	62.0	91.0	90.0	18.0	13.0	14.0	9.8	11.0	
AC. FT.	2174	2781	4649	5601	6817	7406	6446	2878	1008	1146	1150	1121	

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 = - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
59.6	952	9.73	01	16	1500	9.5	4.60	08	22	2115	43178

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
41 11 54	120 56 30	SW21 39N 9E	2950	14.69	1/24/70	MAR 37-SEP 57 8 SEP 57-DATE	MAR 37-SEP 57 8 SEP 57-DATE	1957		0.00	LOCAL	

Station located 300 feet above State Highway 299 bridge. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Flow affected by upstream diversion. Drainage area is 258 sq. mi.

8 - Irrigation season only.

8454.35

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A15150	BURNEY CREEK NEAR BURNEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
19	19	24	40	70	188	92	142	84	15	8.5	13	1	
18	18	24	39	64	161	77	137	74	15	8.8	14	2	
18	25	25	36	63	146	81	142	67	15	11	14	3	
18	98	23	30	70	131	94	141	57	14	11	14	4	
18	56	23	31	88	109	102	138	47	14	12	14	5	
17	36	20	29	82	118	113	130	43	13	12	14	6	
18	37	17	26	92	109	126	130	40	14	12	14	7	
18	35	15	26	88	103	123	127	38	15	13	15	8	
22	32	14	30	97	99	124	124	35	15	13	14	9	
27	36	18	32	129	132	133	120	33	14	13	13	10	
40	42	23	37	112	155	143	116	32	14	12	12	11	
37	33	25	96	115	139	150	122	30	15	13	11	12	
29	35	27	185	94	122	158	133	29	15	13	11	13	
35	51	30	127	96	108	146	131	29	14	13	11	14	
39	41	32	186	89	103	156	132	27	14	12	11	15	
33	44	35	598	86	103	155	131	25	14	11	11	16	
30	35	40	374	83	109	234	132	27	13	12	11	17	
27	34	50	328	81	99	186	130	26	15	12	11	18	
26	36	70	205	78	99	163	122	26	14	11	13	19	
24	35	63	166	75	102	142	114	25	12	11	22	20	
23	34	58	142	73	99	140	103	22	13	12	16	21	
22	28	120	119	72	98	147	93	20	12	12	15	22	
21	28	88	102	71	94	154	88	20	12	13	30	23	
19	27	70	96	95	99	156	154	22	11	14	27	24	
19	26	76	92	129	90	159	248	20	11	14	22	25	
19	26	67	82	135	90	166	159	20	11	14	18	26	
20	25	61	76	162	93	182	120	19	11	14	18	27	
21	25	56	75	172	89	186	102	19	13	13	17	28	
23	24	52	76	86	176	87	19	19	12	13	17	29	
21	24	49	72	84	156	80	16	8.9	13	13	17	30	
20		44	76	88		78		9.2	13			31	
MEAN	23.9	34.8	43.2	117	95.0	111	144	126	33.0	13.2	12.2	15.3	MEAN
MAX.	40.0	98.0	120	598	172	188	234	248	84.0	15.0	14.0	30.0	MAX.
MIN.	17.0	18.0	14.0	26.0	63.0	84.0	77.0	78.0	16.0	8.9	8.5	11.0	MIN.
AC.FT.	1470	2073	2656	7198	5278	6833	8569	7747	1966	809	752	912	AC.FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
63.9	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	46263
	725	9.95	01	16	1200	8.1	5.79	07	29	2015	

E - ESTIMATED
 N - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 E AND .

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 52 18	121 40 58	SW19 35N 3E	4910	15.89	1/23/70	APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL

Station located 300 ft. above county road bridge, 0.8 mi. SW of Burney. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Flow affected by upstream diversion. Drainage area is 87.7 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A03545	COTTONWOOD CREEK NORTH FORK NEAR IGO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	2.2	19	72	122	289	814	400	203	52	21	11	4.2
2	3.1	18	69	114	270	714	378	201	48	21	10	4.5
3	2.7	45	86	106	268	755	355	198	45	20	10	4.8
4	2.5	53	79	102	757	673	341	192	46	19	10	4.8
5	3.1	30	66	98	753	600	341	183	41	19	11	4.8
6	2.7*	26	73	90	755	934	344	180	38	18	11	3.9
7	2.2	40	66	87	969	776	344	177	36	17	11	3.0*
8	3.0	34	66	98	750	786	336	170	33	17	12	3.0
9	10	69	70	205	839	655	334	165	31	17	12	3.3
10	17	126	76	376	1,270	620	327	161	30	16	12	3.0
11	61	397	73	1,710	1,100	577	330	155	30	15	11	4.5
12	138	113	73	872	859	514	333	145	30	15	11	3.9
13	84	318	73	729	737	489	341	142	30	14	11	2.8
14	42	607	76	519	1,050	468	313	141	33	14	8.9	2.8
15	64	914	76	742	823	441	299	142	40	14	8.3	3.0
16	61	822	170	2,360	694	423	275	138	40	15	7.8	3.3
17	37	441	555	1,340	617	407	249	133	39	15	7.8	3.6
18	30	353	421	1,820	539	376	236	127	38	15	7.9	4.2
19	27	302	312	936	475	444	228	122	38	14	7.9	5.8
20	25	218	225	717	454	782	222	120	36	15	8.7	12
21	24	155	220	600	422	1,010	188	110	34	15	20	8.0
22	23	133	331	499	395	632	142	60	32	14	20	9.9
23	23	115	275	437	373	537	139	56	32	14	21	29
24	22	107	265	436	598	505	133	71	32	13	21	15
25	18	98	220	370	738	494	132	65	29	13	21	13
26	19	90	200	313	856	510	135	57	28	12	21	12
27	19	88	230	286	935	507	148	54	25	12	12	11
28	18	82	195	267	874	479	172	54	23	11	11	9.9
29	19	79	160	336		449	193	51	21	11	9.2	9.9
30	19	75	150	343		477	190	51	21	11	6.5	9.9
31	19		126	322		434		52		11	4.5*	
MEAN	27.1	198	166	559	695	589	263	125	34.4	15.1	11.9	7.1
MAX.	138	914	555	2,360	1,270	1,010	400	203	52.0	21.0	21.0	29.0
MIN.	2.2	18.0	66.0	87.0	268	376	132	51.0	21.0	11.0	4.5	2.8
AC. FT.	1667	11835	10213	34417	38596	36262	15665	7688	2045	928	729	422

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
221.7	3540	34.59	01 16 0645	1.9	29.84	10 06 2130	160468

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 26 32	122 32 57	NW21 30N 6W	11000	39.45	12/22/64	NOV 56-DATE	NOV 56-DATE	1956		30.60	LOCAL

Station located at county road bridge, 4.4 mi. S of Igo, 4.4 mi. SE of Ono. Tributary to Sacramento River via Cottonwood Creek. Flow affected by upstream diversion and releases from Rainbow Lake. Drainage area is 88.7 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A03595	COTTONWOOD CREEK SOUTH FORK NEAR COTTONWOOD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	60	161	308	688	361	305	188	36	1.1	0.0	1
2	0.0	0.0	58	147	317	568	344	287	169	34	1.0	0.0	2
3	0.0	0.0	60	140	333	515	333	282	157	30	0.8	0.0	3
4	0.0	0.0	66	130	887	482	325	275	150	28	0.5	0.0	4
5	0.0	0.0	71	123	724	452	331	261	145	24	0.4	0.0	5
6	0.0	0.0	66	118	818	484	360	250	137	21	0.2	0.0	6
7	0.0	0.0	62	113	2,050	444	381	241	120	20	0.2	0.0	7
8	0.0	0.0	49	108	947	439	378	239	116	20	0.1	0.0	8
9	0.0	0.0	41	118	837	412	381	233	113	15	0.0	0.0	9
10	0.0	0.0	29	162	1,210	406	394	231	111	10	0.0	0.0	10
11	0.0	45	31	1,650	822	426	422	227	108	8.7	0.0	0.0	11
12	10	3.5	37	1,880	632	413	433	229	105	7.8	0.0	0.0	12
13	2.1	263	45	2,000	593	395	426	241	102	8.9	0.0	0.0	13
14	1.0	468	43	1,000	557	384	397	258	96	8.2	0.0	0.0	14
15	4.0	713	43	604	516	371	369	266	94	7.2	0.0	0.0	15
16	29	573	56	3,950	455	363	354	266	90	6.7	0.0	0.0	16
17	13	200	1,140	1,980	437	362	352	275	84	6.5	0.0	0.0	17
18	4.6	138	900	2,680	425	355	341	263	81	6.2	0.0	0.0	18
19	1.6	113	1,280	1,160	418	371	321	250	76	7.3	0.0	0.0	19
20	0.0	95	722	797	406	888	305	231	69	7.6	0.0	0.0	20
21	0.0	83	456	647	394	493	291	215	64	7.4	0.0	0.0	21
22	0.0	78	860	549	384	413	280	207	61	6.2	0.0	0.0	22
23	0.0	73	650	490	376	379	291	200	59	5.5	0.0	0.0	23
24	0.0	66	462	452	584	367	302	199	60	4.5	0.0	0.0	24
25	0.0	62	345	430	694	362	311	200	58	3.8	0.0	0.0	25
26	0.0	58	290	382	726	365	329	186	52	3.2	0.0	0.0	26
27	0.0	64	254	346	954	372	361	176	47	2.5	0.0	0.0	27
28	0.0	71	245	317	1,040	369	371	166	44	1.9	0.0	0.0	28
29	0.0	66	214	323	354	354	354	165	38	1.3	0.0	0.0	29
30	0.0	64	196	342	355	325	325	166	36	1.2	0.0	0.0	30
31	0.0		179	310	375	375	375	172		1.2	0.0	0.0	31
AN	2.1	109	290	761	673	433	350	231	94.3	11.3	0.1	0.0	MEAN
AX.	29.0	713	1,280	3,950	2,050	888	433	305	188	36.0	1.1	0.0	MAX.
MIN.	0.0	0.0	29.0	108	308	354	280	165	36.0	1.2	0.0	0.0	MIN.
TOT.	130	6539	17871	46828	37377	26622	20872	14206	5613	698	9	0.0	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
244.2	6450	8.60	01	16	0915	0.0	2.80	10	01	0000	176763

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 18 58	122 26 52	SE32 29N 5W	14000	12.15	1/23/70	APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL

Station located at Bowman Road bridge, 11 mi. SW of Cottonwood. Tributary to Sacramento River via Cottonwood Creek. Flow affected by upstream diversion. Drainage area is 217 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A03460	RED BANK CREEK NEAR RED BLUFF

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.0	0.0	21	57	95	287	93	15	3.4	0.0	0.0	0.0
2	0.0	0.0	19	57	93	231	83	14	3.3	0.0	0.0	0.0
3	0.0	0.0	19	55	97	215	75	13	3.1	0.0	0.0	0.0
4	0.0	0.0	20	54	590	189	69	12	2.9	0.0	0.0	0.0
5	0.0	2.0	16	53	287	165	64	11	2.8	0.0	0.0	0.0
6	0.0	1.7	18	53	442	244	60	11	2.8	0.0	0.0	0.0
7	0.0	1.9	17	52	1,600	191	54	9.3	2.6	0.0	0.0	0.0
8	0.0	2.3	11	54	350	145	50	8.6	2.3	0.0	0.0	0.0
9	0.0	2.3	7.7	120	401	132	46	8.1	2.2	0.0	0.0	0.0
10	0.0	18	8.3	231	661	133	43	8.0	2.1	0.0	0.0	0.0
11	0.0	136	6.0	2,240	499	133	40	7.9	2.0	0.0	0.0	0.0
12	0.0	47	7.3*	818	361	131	38	7.6	2.1	0.0	0.0	0.0
13	0.0	716	9.4	474	400	133	37	6.9	2.1	0.0	0.0	0.0
14	0.0	657	15	201	410	135	36	6.1	1.9	0.0	0.0	0.0
15	0.0	1,200	23	179	329	140	32	5.4	1.8	0.0	0.0	0.0
16	0.0	578	88	2,260	244	145	30	5.0	1.7	0.0	0.0	0.0
17	0.0	186	555	473	204	150	29	4.6	1.4	0.0	0.0	0.0
18	0.0	116	279	2,010	175	155	26	4.5	1.1	0.0	0.0	0.0
19	0.0	87	209	364	157	266	24	4.0	0.7	0.0	0.0	0.0
20	0.0	70	131	211	142	1,330	24	3.5	0.3	0.0	0.0	0.0
21	0.0	59	107	164	130	547	23	4.0	0.0	0.0	0.0	0.0
22	0.0	53	115	129	121	305	22	4.0	0.0	0.0	0.0	0.0
23	0.0	47	97	110	113	224	21	3.5	0.0	0.0	0.0	0.0
24	0.0	42	88	105	423	198	20	4.9	0.0	0.0	0.0	0.0
25	0.0	38	78	111	288	178	19	4.9	0.0	0.0*	0.0	0.0
26	0.0	34	73	89	364	160	18	4.9	0.0	0.0	0.0	0.0
27	0.0	31	75	83	540	144	18	4.0	0.0	0.0	0.0	0.0
28	0.0	28	72	81	430	129	18	3.4	0.0	0.0	0.0	0.0
29	0.0	25	65	144		120	17	3.3	0.0	0.0	0.0	0.0
30	0.0	23	62	142		117	15	3.3	0.0	0.0	0.0	0.0
31	0.0		59	104		108		3.3		0.0	0.0	
MEAN	0.0	140	76.5	363	355	221	38.1	6.7	1.4	0.0	0.0	0.0
MAX.	0.0	1,200	555	2,260	1,600	1,330	93.0	15.0	3.4	0.0	0.0	0.0
MIN.	0.0	0.0	6.0	52.0	93.0	108	15.0	3.3	0.0	0.0	0.0	0.0
AC. FT.		8333	4702	22370	19728	13646	2269	415	84			

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 = - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
98.8	8600	10.00	01 16 0745	0.00	3.50	10 01 0000	71547

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 05 25	122 24 45	SE22 26N 5W	9729	10.06	1/5/65	FEB 48-JUL 49 8 MAY 50-MAY 56 NOV 56-DATE	FEB 48-JUL 49 8 MAY 50-MAY 56 NOV 56-DATE	1956		0.00	LOCAL

Station located at Briggs Road bridge, 11 mi. SW of Red Bluff. Flow affected by upstream diversion. Drainage area is 93.5 sq. mi.

8 - Irrigation season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02700	SACRAMENTO RIVER AT VINA BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7,450	7,100	14,300	15,000	22,600	39,400	12,200	11,600	12,400	11,500	12,400	10,400	1
2	7,410	7,140	13,300	14,700	20,900	36,900	11,400	11,100	11,500	11,400	11,800	10,200	2
3	7,320	7,220	12,400	14,600	20,200	32,500	11,000	10,500	11,200	11,600	11,700	9,730	3
4	7,180	8,660	13,300	14,300	23,500	37,700	10,800	10,700	11,100	11,800	11,700	9,300	4
5	6,630	8,870	11,300	14,100	39,200	30,800	10,600	11,200	11,000	11,800	11,600	9,300	5
6	6,610	7,690	10,700	13,800	32,500	32,700	10,800	11,000	10,800	11,800	11,300	9,350	6
7	6,650	7,050	10,900	13,200	60,500	33,100	11,200	10,900	10,700	11,900	11,300	9,290	7
8	6,640	7,770	10,800	12,800	43,800	29,100	11,100	11,000	10,700	12,300	11,300	9,210	8
9	6,800	7,530	10,100	22,800	36,300	26,000	11,000	10,800	10,600	12,400	11,300	9,280	9
10	7,130	8,560	10,100	35,600	51,800	23,800	11,000	10,800	10,600	12,300	11,400	9,350	10
11	7,390	14,200	9,940	50,600	43,500	27,100	11,100	10,900	10,500	12,300	11,300	9,310	11
12	7,600	12,100	10,100	73,600	46,600	23,700	11,000	11,700	10,500	12,400	11,000	9,300	12
13	7,520	10,300	9,130	51,600	45,000	21,700	11,200	11,900	10,500	12,700	11,000	9,260	13
14	7,480	30,400	9,120	37,400	48,100	18,700	11,000	12,100	11,000	12,700	11,300	9,290	14
15	8,100	18,700	9,100	29,600	52,400	16,200	10,700	12,200	11,300	12,800	11,200	9,180	15
16	9,290	32,700	9,170	75,700	40,600	14,200	10,500	12,800	11,300	12,800	11,200	9,110	16
17	8,840	17,000	29,400	71,700	35,100	13,100	10,700	13,800	11,200	12,700	11,200	9,150	17
18	8,270	17,100	32,100	84,400	30,600	12,000	10,700	13,700	11,200	12,700	11,300	9,160	18
19	7,760	17,500	37,700	79,600	25,900	11,500	10,200	13,800	11,100	12,700	11,300	9,240	19
20	7,490	17,500	23,700	60,800	24,100	20,900	9,890	13,600	11,100	12,700	11,400	9,390	20
21	7,340	16,200	17,800	56,200	21,500	19,600	9,710	13,200	11,100	12,700	11,300	9,520	21
22	7,360	15,900	21,400	53,200	19,900	22,600	9,510	13,000	11,100	12,800	11,300	9,530	22
23	7,210	16,300	20,600	50,700	19,600	15,300	9,570	12,800	11,200	12,800	11,300	9,700	23
24	7,170	16,100	18,100	48,100	23,200	13,400	9,640	13,000	11,600	12,700	11,400	9,760	24
25	7,200	15,900	15,700	39,700	27,100	12,600	9,840	15,500	11,100	12,700	11,400	9,740	25
26	7,150	15,800	13,800	31,100	25,400	12,200	10,900	14,100	11,000	12,700	11,400	9,530	26
27	7,150	15,800	12,800	26,500	41,700	11,800	11,300	13,300	11,000	12,800	11,500	9,470	27
28	7,080	15,900	13,600	21,200	51,700	11,600	11,500	12,900	11,200	12,700	11,400	9,450	28
29	7,120	15,800	13,500	21,500		11,900	11,600	12,700	11,500	12,800	11,400	9,390	29
30	7,070	15,300	14,300	31,600		11,700	12,000	12,500	11,400	12,700	11,200	9,400	30
31	7,150		15,300	25,100		13,200		12,500		12,700	10,400		31
MEAN	7,372	14,136	15,276	38,412	34,760	21,193	10,788	12,309	11,083	12,432	11,354	9,443	MEAN
MAX.	9,290	32,700	37,700	84,400	60,500	39,400	12,200	15,500	12,400	12,800	12,400	10,400	MAX.
MIN.	6,610	7,050	9,100	12,800	19,600	11,500	9,510	10,500	10,500	11,400	10,400	9,110	MIN.
C.FT.	453342	841170	939292	2361916	1930511	1303140	641970	756892	659504	764429	698181	561897	AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
16454.1	100000	84.89	01 16 2000	6380.0	66.14	10 05 1600	11912245

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 54 34	122 05 31	NE28 24N 2W	171,000	91.48	1/24/70	APR 45-DATE	APR 45-DATE	1945	1945	100.00	USED
										97.15	USCGS

Station located 250 ft. above Vina-Corning Highway bridge, 2.6 mi. SW of Vina. The maximum discharge of record is for the main river channel and does not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Trans-basin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 10,930 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	402630	SACRAMENTO RIVER AT HAMILTON CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	6,970	7,190	14,500	15,300	24,700	41,200	12,900	9,960	10,900	9,040	9,830	8,480	1
2	6,930	7,230	13,600	15,000	22,700	39,300	12,000	9,680	10,100	9,020	9,220	8,380	2
3	6,840	7,310	12,800	14,900	21,900	34,000	11,600	8,930	9,810	8,980	9,190	8,060	3
4	6,820	7,990	13,300	14,700	24,100	39,100	11,300	9,040	9,640	9,260	9,160	7,720	4
5	6,380	9,020	11,900	14,500	39,300	32,900	11,100	9,560	9,430	9,290	9,110	7,680	5
6	6,310	7,910	11,100	14,300	33,300	33,700	11,300	9,360	9,260	9,670	8,850	7,680	6
7	6,340	7,280	11,100	13,700	61,100	37,100	11,500	9,230	9,210	9,310	8,810	7,730	7
8	6,320	7,710	11,100	13,400	50,300	30,600	11,200	9,300	9,060	9,700	8,790	7,760	8
9	6,400	7,630	10,600	19,400	38,100	28,100	11,000	9,210	9,020	9,710	8,830	7,780	9
10	6,750	8,210	10,400	37,200	52,500	25,200	11,000	9,150	8,910	9,700	8,880	7,850	10
11	7,110	12,200	10,400	44,600	45,300	27,900	11,000	9,200	8,790	9,650	8,830	7,830	11
12	7,230	13,000	10,400	75,300	47,400	25,100	11,000	9,890	8,740	9,700	8,680	7,860	12
13	7,250	9,700	9,760	51,700	45,800	23,300	11,000	10,100	8,750	10,000	8,440	7,850	13
14	7,270	26,300	9,530	39,000	47,000	20,400	10,800	10,200	8,850	10,000	8,740	8,020	14
15	7,610	20,200	9,550	30,400	53,900	17,800	10,400	10,400	8,970	10,000	8,720	8,000	15
16	8,810	31,300	9,620	62,300	42,900	15,500	10,200	10,700	9,040	10,100	8,700	8,070	16
17	8,360	18,400	23,200	79,800	37,300	14,200	10,000	11,800	8,990	10,000	8,660	8,240	17
18	8,030	16,500	33,600	76,900	33,000	13,100	10,200	11,800	8,950	10,000	8,750	8,260	18
19	7,570	17,100	37,400	85,100	28,500	12,500	9,660	11,900	8,900	10,100	8,860	8,340	19
20	7,420	17,100	25,300	61,300	26,300	19,900	9,130	11,800	8,820	10,100	8,930	8,490	20
21	7,360	16,100	19,100	55,200	23,800	21,500	8,810	11,500	8,760	10,100	8,850	8,650	21
22	7,300	15,500	20,400	52,600	22,000	24,200	8,560	11,200	8,730	10,100	8,950	8,860	22
23	7,230	16,000	21,800	50,000	21,500	16,900	8,510	11,100	8,730	10,100	8,970	8,980	23
24	7,190	15,800	18,500	48,400	24,000	14,400	8,540	11,200	9,260	10,100	9,040	9,210	24
25	7,200	15,700	16,800	41,800	30,100	13,400	8,490	13,200	8,780	10,000	9,100	9,180	25
26	7,180	15,600	14,500	33,100	26,600	12,900	9,260	12,700	8,710	9,960	9,140	9,080	26
27	7,200	15,600	13,400	29,000	41,200	12,500	9,550	11,700	8,710	9,930	9,220	8,980	27
28	7,160	15,600	13,800	23,300	55,000	12,200	9,750	11,400	8,700	9,960	9,230	8,960	28
29	7,190	15,700	13,800	22,800		12,500	9,760	11,100	9,010	9,980	9,230	8,900	29
30	7,190	15,400	14,400	33,500		12,200	10,200	10,900	9,010	10,000	9,210	8,930	30
31	7,200		15,600	27,200		13,400		10,800		9,940	8,470		31
MEAN	7,165	13,876	15,524	38,571	36,414	22,483	10,324	10,581	9,084	9,790	8,948	8,327	ME
MAX.	8,810	31,300	37,400	85,100	61,100	41,200	12,900	13,200	10,900	10,100	9,830	9,210	MA
MIN.	6,310	7,190	9,530	13,400	21,500	12,200	8,490	8,930	8,700	8,980	8,440	7,680	MI
AC. FT.	440568	825679	954565	2371635	2022346	1382479	614320	650598	540575	601983	550195	495491	AC

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
15816.2	97500	44.47	01	18	2315	6180.0	27.91	10	08	0900	11450433

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 45 07	121 59 43	NE20 22N 1W	156,000	50.77	1/24/70	SPR 45-DATE	27-DATE	1927	1945	127.9	USED
								1945		100.0	USED
								1945		96.5	USCGS

Station located at Gianella bridge, State Highway 32, 1.0 mi. NE of Hamilton City. The maximum discharges of record since Feb. 1940, are for the main river channel and do not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 11,060 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A04242	MUD CREEK NEAR CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	2.3	6.8	97	353	44	7.2	3.5	0.0	0.3	1.0	1
2	0.0	0.0*	2.2	6.2	71	271	34	6.9	2.2	0.0	0.0*	0.0	2
3	0.0	0.0	2.3	5.7	88	325	29	6.8	1.3	0.0*	0.0	0.0	3
4	0.0*	0.0	5.4	5.1	227	298	25	7.9	0.9	0.0	0.0	0.0	4
5	0.0	0.0	5.0	4.7	173	206	23	7.9	0.7	0.0	0.0	0.0	5
6	0.0	0.0	58 *	4.6	538	607	22	6.7	0.4	0.0	0.0	0.0*	6
7	0.0	4.9	19	4.2	869	291	21	6.4	0.1	0.0	0.0	0.0	7
8	0.0	6.9	8.6	28	366	219	19	5.7	1.1	0.0	0.0	0.0	8
9	0.0	2.2	5.4	1,470	458	166	19	5.5	2.0	0.0	0.0	0.0	9
10	0.0	41	3.1	439	647	141	18	5.1	1.8	0.0	0.0	0.0	10
11	0.0	331	3.0	1,080	330	124	16	4.8	1.9	0.0	0.0	0.0	11
12	0.0	17	2.9	1,050	235	94	15	4.6	1.7	0.0	0.0	0.0	12
13	0.0	194	2.8	473	192	74	15	4.2	1.5	0.0	0.0	0.0	13
14	0.0	775	2.4	239	361	60	15	3.9	1.3	0.0	0.0	0.0	14
15	0.6	322	2.4	413	233	49	14	3.6*	0.7	0.0	0.0*	0.0	15
16	0.8	516	83	2,580 *	179	43 *	14	3.5	0.0	0.0	0.0	0.0	16
17	3.1	67 *	989	523	150	44	13	3.1	0.0	0.0	0.0	0.0	17
18	0.2*	23	476	1,130	116	36	13	2.9	0.0	0.0*	0.0	0.0	18
19	0.0	36	344	375	88	50	12	2.7	0.0	0.1	0.0	0.0	19
20	0.0	16	167	229	69	174	11	2.7	0.2	0.0	0.0	0.0	20
21	0.0	11	85	203	57	266	11	2.7	0.0	0.0	0.1	0.0	21
22	0.0	8.3	44	141	46	179	10	2.5	0.0	0.0	0.2	0.0	22
23	0.0	6.4	22	89	40	118	9.7	2.4	0.0	0.0	0.0	0.0	23
24	0.0	5.1	65	75	131	81	9.4	2.7	0.0	0.0	0.0	0.0	24
25	0.0	4.3	22	145	120	64	8.9	3.2	0.0	0.3	0.0	0.0	25
26	0.0	3.7	16	88	677	54	8.6	2.7	0.0	0.5	0.0	0.0	26
27	0.0	3.4	17	52	1,480	62	8.3	2.2	0.1	0.1	0.0	0.0	27
28	0.0	3.0	23	40	641	38	8.1	1.8	0.2	0.5	0.0	0.0	28
29	0.0	2.7	12	207	29	29	8.0	1.5	0.4	0.2	0.1	0.0	29
30	0.0	2.5	9.7	262	28	28	7.6	1.4	0.0	0.0	1.8	0.2	30
31	0.0		8.0	145	74	74		2.0		0.3	2.3		31
AN.	0.2	80.1	80.9	371	310	149	16.1	4.1	0.7	0.1	0.2	0.0	MEAN
AX.	3.1	775	989	2,580	1,480	607	44.0	7.9	3.5	0.5	2.3	1.0	MAX.
IN.	0.0	0.0	2.2	4.2	40.0	28.0	7.6	1.4	0.0	0.0	0.0	0.0	MIN.
FT.	9	4765	4974	22836	17215	9160	955	252	44	4	10	2	AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
83.2	5260	8.74	02	27	2030	0.0	0.32	10	01	0000	60225

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 02	121 53 06	SE5 22N 1E				NOV 64-DATE	NOV 64-DATE	1964		0.00	LOCAL

Station located 0.1 mi. above Old Highway 99E bridge, 4.9 mi. N of Chico. Tributary to Sacramento River via Big Chico Creek. Includes an undetermined amount of water from Big Chico Creek. Drainage area is 47.5 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A00928	MUD CREEK DIVERSION AT CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	2
3	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0*	0.0	0.0*	0.0	0.0	3
4	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	5
6	0.0	0.0	0.0*	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	6
7	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	828 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0*	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.0	0.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MI
MAX.	0.0	0.0	0.0	828	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	M
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	M
AC. FT.				1649									AC

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.3	2500	11.06	01	16	1115	0.0	7.07	10	01	0000	1649

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 07	121 48 01	SW18 22N 2E				NOV 64-DATE	NOV 64-DATE	1964		0.00	LOCAL

Station located 0.4 mi. above Wildwood Avenue bridge, 4.0 mi. NE of Chico. This flow is diverted from Lindo Channel into Mud Creek during periods of high water. Crest of diversion weir is at gage height 8.38.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A04250	RIG CHICO CREEK AT CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.1	8.9	27	55	198	532	155	56	30	11	4.6	6.4	1
2	6.2	9.3	27	52	178	444	144	54	28	11	4.5	7.3	2
3	5.4	11	27	50	169	408	135	52	26	8.1	4.3	4.7	3
4	5.1	17	37	47	247	380	127	53	24	9.2	4.1	6.8	4
5	5.1	26	35	45	413	330	122	55	23	9.6	4.2	4.5	5
6	5.1	19	40	43	401	394	118	51	22	10	6.1	5.3	6
7	5.0	25	36	41	532	380	114	48	21	8.3	2.5	5.0	7
8	5.2	55	32	45	448	332	109	46	20	8.1	7.2	5.0	8
9	7.6	30	23	307	418	288	105	44	19	9.8	5.4	4.3	9
10	15	35	34	395	592	271	102	42	19	6.4	3.4	5.1	10
11	19	128	29	494	532	335	99	41	19	8.3	4.1	6.0	11
12	34	68	34	657	438	294	97	40	16	8.4	4.6	5.7	12
13	18	64	31	529	354	260	95	39	18	8.3	7.0	6.1	13
14	18	351	30	342	357	229	95	38	18	9.3	3.9	6.9	14
15	33	156	29	277	325	204	91	39	19	8.4	3.2	18	15
16	43	370	38	916	271	186	89	37	18	10	3.2	32	16
17	25	150	312	695	233	185	87	35	18	6.6	3.4	31	17
18	21	101	271	787	207	171	84	34	17	8.5	3.5	34	18
19	17	91	368	606	184	170	81	33	15	8.0	4.7	35	19
20	15	80	219	440	165	241	78	33	15	8.4	6.1	51	20
21	14	67	160	356	151	266	76	31	16	8.8	1.7	36	21
22	13	57	145	274	142	252	73	31	15	8.2	3.6	12	22
23	13	49	134	223	132	231	69	31	14	9.5	4.5	14	23
24	12	44	126	194	175	210	67	26	25	5.5	5.1	13	24
25	11	38	110	193	270	194	65	36	30	6.9	5.8	12	25
26	11	35	96	179	319	182	64	34	12	6.5	7.2	11	26
27	11	33	88	164	624	173	63	31	12	6.3	9.0	10	27
28	12	31	83	152	699	158	62	29	12	6.0	4.6	9.3	28
29	11	29	72	171	147	147	62	27	11	5.8	5.5	8.8	29
30	8.5	28	65	237	141	141	59	26	11	7.7	5.1	9.0	30
31	8.9		60	217	176	176		28		3.0	5.3		31
MEAN	14.0	73.5	90.9	296	327	263	92.9	38.7	18.8	8.1	4.8	13.8	MEAN
MAX.	43.0	370	368	916	699	532	155	56.0	30.0	11.0	9.0	51.0	MAX.
MIN.	5.0	8.9	23.0	41.0	132	141	59.0	26.0	11.0	3.0	1.7	4.3	MIN.
C. FT.	861	4376	5589	18214	18196	16193	5528	2380	1117	496	292	824	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
102.3	1130	10.07	01 16 1415	0.0	3.11	07 31 0345	74067

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 43 38	121 51 43	SE28 22N 1E				JAN 56-DATE	JAN 56-DATE	1956		167.88	USED

Station located 50 ft. above Rose Avenue Highway bridge, immediately W of Chico. Tributary to Sacramento River. Flow affected by upstream diversion.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A00615	LINDO CHANNEL NEAR CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.0	0.0	77	601	45						1
2		0.0 *	0.0	0.0	68	381	40				*		2
3		0.0	0.0	0.0 *	68	300	35	*		*			3
4		0.0	0.0	0.0	122	255	31						4
5		0.0	0.0 *	0.0	285	204	28		*				5
6		0.0		0.0	287	284	26						6
7		0.0		0.0	511	235	23						7
8		0.0		0.2	351	192	20						8
9		0.0	Sta A00600 destroyed Dec 5, 1972	170	302	156	18						9
10		0.0		224	682	137	17						10
11	N	0.0		429 *	513	180	15	N	N	N	N	N	11
12		0.0		967	339	144	13						12
13	O	0.0		580	227	115	12	O	O	O	O	O	13
14		0.0		281	244	91	11						14
15		0.0		213	211 *	72	4.4	*			*		15
16	F	142 *		1680 *	167	58 *	2.2	F	F	F	F	F	16
17		60		1110	135	56	1.3						17
18	L	11		1700	114	50	0.7	L	L	L *	L	L	18
19	*	0.0		848	104	55	0.4						19
20	O	0.0	58	378	90	91	0.0	O	O	O	O	O	20
21	W	0.0	26 *	236	66	109	0.0	W	W	W	W	W	21
22		0.0	16	152	65	96	0.0						22
23		0.0	11	106	67	83	0.0						23
24		0.0	7.7	88	114	71	0.0						24
25		0.0	1.7	83	202	62	0.0						25
26		0.0	0.0	76	293	56	0.0						26
27		0.0	0.0	68	1000	55	0.0						27
28		0.0	0.0	59	1210 *	46	0.0						28
29		0.0	0.0	68		41	0.0						29
30		0.0	0.0	101 *		37	0.0						30
31		0.0	0.0	86		54							31
MEAN		7.1	NR	313	283	141	11.4						MEAN
MAX.		142	NR	1700	1210	601	45						MAX.
MIN.		0.0	0.0	0.0	65	37	0.0						MIN.
AC. FT.		422	NR	19250	15700	8662	680						AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
NR	NR			0.0			NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 44 57	121 52 06	NE21 22N 1E	2340	7.40	1/16/73	DEC 72-DATE	DEC 72-DATE	1972		170.00	USED

Station located right abutment, Cossick Ave. bridge, 2-1/4 mi. NW of Chico Post Office. Tributary to Sacramento River via Big Chico Creek. Flow affected by upstream diversion. Station A00600 was destroyed on December 5, 1972. Station A00615 was constructed about 3/4 miles upstream on December 20, 1972. The above table contains data from both stations.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A31302	GRINDSTONE CREEK NEAR ELK CREEK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					240 *								1
2													2
3													3
4													4
5													5
6			51 *										6
7													7
8													8
9													9
10							355 *						10
11				1892 *									11
12									31 *			1.1 *	12
13													13
14													14
15													15
16		294 *						179 *					16
17													17
18	36 *			2135 *					27 *	6.2 *			18
19													19
20													20
21					330 *								21
22													22
23													23
24													24
25													25
26												4.7 *	26
27						379 *				1.4 *			27
28													28
29													29
30							265 *						30
31				270 *									31
AN. MAX. MIN. FT.													MEAN MAX. MIN. AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET			
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME	

Note: Gage height data insufficient to compute daily mean discharge. Measured discharge published.

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 40 48	122 31 52	SW15 21N 6W				NOV 35-SEP 37 AUG 52-OCT 55 OCT 59-DATE	NOV 35-SEP 37 AUG 52-MAR 57 AUG 59-DATE				

Station located above Chrome Road bridge, 5.1 mi. N of Elk Creek. Tributary to Sacramento River via Stony Creek. Drainage area is 172 sq. mi. Station discontinued June 30, 1973.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	402570	SACRAMENTO RIVER AT ORD FERRY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6,910	7,200	14,300	15,300	26,100	51,900	14,800	10,300	10,900	9,200	9,880	8,560	1
2	6,900	7,170	13,400	15,100	24,100	47,500	13,800	10,000	10,300	9,230	9,290	8,580	2
3	6,780	7,310	12,600	14,900	23,200	40,100	13,300	9,300	9,960	9,100	9,200	8,260	3
4	6,760	7,620	12,800	14,800	24,400	44,300	13,000	9,200	9,780	9,420	9,150	7,890	4
5	6,400	9,150	12,000	14,500	37,500	39,000	12,700	9,660	9,560	9,450	9,150	7,790	5
6	6,190	8,200	11,100	14,300	36,300	38,200	12,600	9,520	9,420	9,750	8,870	7,790	6
7	6,210	7,470	11,000	13,800	59,100	44,600	12,700	9,400	9,350	9,440	8,790	7,810	7
8	6,150	7,560	11,000	13,300	64,500	34,900	12,500	9,310	9,190	9,830	8,760	7,820	8
9	6,240	7,760	10,600	16,300	46,800	31,600	12,200	9,330	9,150	9,840	8,780	7,840	9
10	6,550	8,100	10,300	40,000	56,000	28,000	12,100	9,220	9,070	9,870	8,780	7,930	10
11	7,010	11,300	10,200	39,200	56,100	29,600	12,000	9,190	8,990	9,790	8,840	7,960	11
12	7,200	14,100	10,200	72,200	54,600	27,800	12,000	9,740	8,920	9,780	8,760	7,970	12
13	7,270	10,100	9,900	61,600	52,400	25,800	11,800	10,100	8,880	10,100	8,370	8,000	13
14	7,220	22,500	9,440	46,700	52,200	23,000	11,700	10,200	9,050	10,100	8,710	8,120	14
15	7,520	23,500	9,460	35,300	58,700	20,600	11,300	10,400	9,140	10,100	8,730	8,150	15
16	8,750	29,900	9,570	51,500	48,900	18,500	11,100	10,400	9,180	10,200	8,700	8,220	16
17	8,480	21,500	18,100	88,600	40,200	17,000	10,900	11,400	9,180	10,200	8,680	8,380	17
18	8,260	16,300	36,500	75,100	35,900	16,000	11,000	11,700	9,130	10,000	8,770	8,410	18
19	7,660	16,900	37,200	93,600	31,700	15,200	10,600	11,700	9,100	10,100	8,830	8,470	19
20	7,510	17,000	27,600	73,600	29,000	19,300	10,000	11,700	8,970	10,100	8,870	8,670	20
21	7,390	16,000	19,500	61,800	26,100	24,200	9,580	11,500	8,960	10,100	8,870	8,740	21
22	7,410	15,200	19,700	58,500	23,900	26,500	9,280	11,200	8,910	10,200	8,930	8,960	22
23	7,370	15,700	21,000	54,900	23,200	20,600	9,060	11,000	8,880	10,100	8,940	9,050	23
24	7,300	15,500	18,000	52,200	23,800	17,500	9,050	11,100	9,380	10,000	9,020	9,320	24
25	7,280	15,300	16,600	47,400	31,900	16,000	8,900	12,300	8,960	10,100	9,110	9,280	25
26	7,270	15,200	14,700	38,800	28,100	15,300	9,480	12,900	8,880	10,000	9,140	9,250	26
27	7,310	15,100	13,800	33,500	43,300	14,800	9,800	11,700	8,830	9,940	9,250	9,120	27
28	7,240	15,200	14,100	26,900	63,600	14,300	10,000	11,400	8,840	9,920	9,260	9,100	28
29	7,240	15,200	14,200	25,400	14,300	10,000	11,100	11,100	9,140	9,960	9,270	9,050	29
30	7,200	15,100	14,500	33,100	14,000	14,000	10,400	10,900	9,140	10,000	9,270	9,080	30
31	7,180		15,500	29,000	14,900	14,900		10,800		9,910	8,710		31
MEAN	7,166	13,804	15,447	41,006	40,057	25,977	11,255	10,570	9,238	9,865	8,957	8,452	MEAN
MAX.	8,750	29,900	37,200	93,600	64,500	51,900	14,800	12,900	10,900	10,200	9,880	9,320	MAX.
MIN.	6,150	7,170	9,440	13,300	23,200	14,000	8,900	9,190	8,830	9,100	8,370	7,790	MIN.
AC. FT.	440648	821434	949824	2521387	2224660	1597288	669719	649924	549699	606605	550770	502948	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 # - FLOOD SEASON

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
16692.6		96400	64.89	01	19	0900	6010.0	46.09	10	08	1430	17084906

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 37 39	121 59 28	SE32 21N 1W	138,000	69.8	1/24/70	JAN 48-DATE	21-MAY 27 #	1937	1960	0.00	MEAN
							FEB 37-MAY 37				
							OCT 37-MAY 39	1960		50.00	MEAN
							NOV 39-MAY 41 #				
							NOV 41-DATE				

Station located 0.1 mi. below Ord Ferry. Records of flows in excess of 70,000 cubic feet per second are not reliable due to an undetermined amount of water by-passing the station via Butte Basin. Flow regulated by Shasta Lake since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 12,480 sq. mi.

- Flood season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A029R6	MOULTON WEIR SPILL TO BUTTE BASIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0*	0.0	0.0	0.0	200	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0*	0.0*	0.0	2
3	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	4
5	0.0	0.0	0.0*	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	5
6	0.0	0.0	0.0	0.0	0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	1,270	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	157	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	1,820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	3,880	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	5,840	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	8,590	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	8,250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	2,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	621	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
AN.	0.0	0.0	0.0	1,023	58.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
AX.	0.0	0.0	0.0	8,590	1,270	200	0.0	0.0	0.0	0.0	0.0	0.0	MAX.
IN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
FT.				62926	3253	397							AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
92.0	11400	80.34	01	19	2145	0.0	74.00	10	01	0000	66575

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
9 20 18	122 01 18	SE12 17N 2W				JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located west of south end of weir, 4.5 mi. S of Princeton. Elevation of weir crest is 76.75 ft. USE datum; length of crest is 500 ft.

- Flood season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	402981	COLUSA WEIR SPILL TO BUTTE BASIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0*	0.0	0.0	0.0	22,700 *	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	15,000	0.0	0.0*	0.0	0.0*	0.0*	0.0	2
3	0.0*	0.0	0.0	0.0	0.0	9,720	0.0*	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0*	0.0	7,280	0.0	0.0	0.0*	0.0	0.0	0.0	4
5	0.0	0.0	0.0*	0.0	378	7,940	0.0	0.0	0.0	0.0	0.0	0.0*	5
6	0.0	0.0	0.0	0.0	4,550	4,270	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	8,580	7,790	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	26,000	5,020	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	21,000 *	1,530	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	592	14,200	91	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	2,970	22,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	15,500	19,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	29,400 *	18,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	19,900	16,500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	6,670	18,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	4,200	19,500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	28,000	10,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	83	37,600	4,790	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	918	39,200	1,780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	2,230 *	42,100	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	30,900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	25,100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	22,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	18,900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	15,500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	9,260	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	2,940	1,930	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	408	14,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	1,090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.0	104	11,366	7,936	2,623	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	0.0	2,230	42,100	26,000	22,700	0.0	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.			6409	698890	440763	161337							AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 = - END *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
1805.9	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	1307398
	45300	66.67	01 20 0145	0.0	61.80	10 01 0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 14 12	121 59 38	SE17 14N 1W		70.6	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located at north end of weir, 2.0 mi. N of Colusa. Elevation of weir crest is 61.80 ft. USED datum; length of crest is 1,50 ft.
 # - Flood season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A04910	LITTLE CHICO CREEK DIVERSION NEAR CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	1
2	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0*	0.0	2
3	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0*	0.0		0.0	0.0	3
4	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0		0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	N	0.0	0.0	5
6	0.0	0.0	0.0*	0.0	0.0	0.0*	0.0	0.0	0.0	O	0.0	0.0*	6
7	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0		0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0		0.0	0.0	8
9	0.0	0.0	0.0	152	0.5	0.0	0.0	0.0	0.0		0.0	0.0	9
10	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		0.0	0.0	10
11	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0		0.0	0.0	11
12	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	R	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	E	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0*	0.0	C	0.0*	0.0	15
16	0.0	0.0	0.0	124	0.0	0.0	0.0	0.0	0.0	O	0.0	0.0	16
17	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	17
18	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0	0.0		0.0	0.0	18
19	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	R	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	26
27	0.0	0.0	0.0	0.0	43	0.0	0.0	0.0	0.0		0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	31
AN.	0.0	0.0	0.0	10.3	1.6	0.0	0.0	0.0	0.0		0.0		MEAN
IX.	0.0	0.0	0.0	152	43.0	0.0	0.0	0.0	0.0		0.0		MAX.
IN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		MIN.
FT.				676	90								AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
NP	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
			1204 E	7.22	12/22/64	JAN 59-DATE					
			1186	7.18	1/ 5/65						

See Little Chico Creek near Chico for records of stage and location. This is flow diverted from Little Chico Creek, into Butte Creek during periods of high water.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A04265	BUTTE CREEK NEAR DURHAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	64	165	113	131	617	1,810	727	465	224	28	16	14	1
2	63	110	142	125	573	1,490	650	465	123	23	8.8	14	2
3	66	64	129	124	565	1,320	615	453	41	22	9.7	14	3
4	73	156	179	110	746	1,240	594	460	32	25	10	15	4
5	66	243	163	108	953	1,080	598	396	27	28	11	13	5
6	63	162	177	103	1,010	1,340	613	372	24	27	14	13	6
7	60	164	172	97	1,650	1,140	619	373	69	26	11	12	7
8	62	249	129	108	1,200	1,040	598	383	96	28	14	12	8
9	69	170	112	1,390	1,170	940	598	393	84	28	20	11	9
10	108	183	122	1,030	2,250	907	598	406	85	27	14	11	10
11	178	377	121	1,450	1,720	1,080	605	398	80	28	14	12	11
12	234	275	110	2,670	1,330	910	629	388	62	30	17	11	12
13	159	270	111	1,670	1,120	826	637	415	69	32	16	11	13
14	170	1,110	96	845	1,270	764	618	424	70	34	9.9	12	14
15	231	496	73	760	1,150	723	598	408	74	31	11	12	15
16	236	1,140	129	4,760	966	698	584	429	77	30	14	12	16
17	107	415	977	2,620	866	711	577	410	76	28	12	12	17
18	66	293	781	3,310	815	682	570	406	71	30	4.9	12	18
19	65	297	1,060	2,050	762	686	542	391	69	29	7.4	14	19
20	62	269	535	1,360	728	863	521	373	60	29	13	55	20
21	62	235	336	1,130	702	915	503	329	56	31	13	98	21
22	64	211	478	955	677	853	493	317	42	29	3.5	69	22
23	62	192	392	833	645	785	507	308	35	25	3.5	77	23
24	45	179	324	757	797	743	521	320	49	29	3.5	59	24
25	52	164	255	761	1,030	716	521	352	26	29	3.5	30	25
26	63	150	221	696	1,150	705	528	285	38	29	8.3	27	26
27	108	173	204	624	2,750	706	542	242	29	26	8.5	38	27
28	140	165	190	577	2,860	687	537	228	20	22	9.0	56	28
29	141	120	176	644		660	514	223	25	22	9.4	49	29
30	147	101	158	769		648	486	214	31	24	9.9	38	30
31	158		143	673		801		219		20	11		31
MEAN	104	276	268	1,072	1,145	918	574	362	62.1	27.4	10.7	27.8	ME
MAX.	236	1,140	1,060	4,760	2,860	1,810	727	465	224	34.0	20.0	98.0	MU
MIN.	45.0	64.0	73.0	97.0	565	648	486	214	20.0	20.0	3.5	11.0	M.
AC. FT.	6434	16459	16479	65931	63614	56467	34201	22304	3697	1684	656	1652	AC

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRE FEET
400.0	7000	3.5	289578

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 40 37	121 46 38	NW17 21N 2E	21300 E	14.55	12/22/64	JAN 58-DATE	JAN 58-DATE	1958		181.01	USEL

Station located 0.1 mi. below Ord-Chico Highway Bridge, 2.6 mi. NE of Durham. Tributary to Butte Slough. Flow affected at times by large upstream diversions and imports from West Branch Feather River.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A04280	LITTLE CHICO CREEK NEAR CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	1.6	7.3	81	237	59	13	6.2	0.8	0.0	0.0	1
2	0.0	0.0	1.6	6.8	71	178	51	12	5.3	0.7	0.0*	0.0	2
3	0.0	0.1	1.8	7.0	73	174	47	12	4.5	0.4	0.0	0.0	3
4	0.0*	1.0	3.8	6.2	114	161	44	14	4.0	0.5	0.0	0.0	4
5	0.0	1.2	3.4	5.5	114	133	42	13	3.7	0.4	0.0	0.0	5
6	0.0	0.4	8.3*	5.2	220	266	40	12	3.5	0.4	0.0	0.0*	6
7	0.0	4.5	7.6	4.7	463	197	38	11	3.1	0.4	0.0	0.0	7
8	0.0	4.7	5.4	11	250	163	36	11	2.8	0.3	0.0	0.0	8
9	0.0	0.9	4.4	508	294	131	34	10	2.4	0.4	0.0	0.0	9
0	0.0	2.9	3.3	275	467	122	33	9.7	2.4	0.2	0.0	0.0	10
1	0.4	4.3	5.7	445	291	116	31	9.0	2.7	0.2	0.0	0.0	11
2	1.4	5.4	2.9	595	205	98	29	8.7	2.7	0.2	0.0	0.0	12
3	1.0	25	2.6	289	159	86	29	8.2	2.8	0.2	0.0	0.0	13
4	1.3	194	2.4	143	247	76	28	8.0	2.9	0.2	0.0	0.0	14
5	3.8	99	2.4	202	185	68	27	7.5*	2.9	0.1	0.0*	0.0	15
6	6.9	163	14	773 *	146	62	25	7.3	3.0	0.3	0.0	0.0	16
7	2.7	30 *	257	399	120	64	24	6.9	2.8	0.4	0.0	0.0	17
8	1.9	15	145	621	101	57	23	6.6	2.7	0.3*	0.0	0.0	18
9	1.4*	18	137	320	87	66	22	6.5	2.3	0.3	0.0	0.0	19
0	0.9	10	72	190	77	112	21	6.4	2.0	0.4	0.0	0.1	20
1	0.7	5.9	46	158	69	143	20	6.4	1.7	0.5	0.0	0.3	31
2	0.6	4.8	36	115	61	119	19	6.3	1.7	0.4	0.0	0.1	22
3	0.5	3.0	26	92	56	95 *	18	6.1	1.9	0.3	0.0	0.2	23
4	0.4	0.8	34	94	76	80	17	6.8	2.1	0.1	0.0	0.3	24
5	0.2	1.6	22	115	67	72	16	7.2	1.5	0.0	0.0	0.3	25
6	0.1	1.6	18	98	144	66	16	6.3	1.3	0.0	0.0	0.1	26
7	0.1	1.5	18	82	495	61	15	5.8	1.1	0.0*	0.0	0.0	27
8	0.1	1.5	18	74	408	55	15	5.5	0.7	0.0	0.0	0.0	28
9	0.1	1.4	14	119	50	50	14	5.0	0.8	0.0	0.0	0.0	29
0	0.0	1.5	12	135	50	50	14	4.6	0.9	0.0	0.0	0.0	30
1	0.0		11	98	77	77		5.6		0.0	0.0	0.0	31
AN	0.8	21.4	30.2	193	183	110	28.2	8.3	2.6	0.3	0.0	0.0	MEAN
MX.	6.9	194	257	773	495	266	59.0	14.0	6.2	0.8	0.0	0.3	MAX.
N.	0.0	0.0	1.6	4.7	56.0	50.0	14.0	4.6	0.7	0.0	0.0	0.0	MIN.
FT.	49	1273	1859	11888	10197	6813	1680	513	156	17		3	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM				TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
47.6	1170	5.35	01	09	1415	0.0	0.00	10	01	0000	34446

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 44 02	121 46 23	NE29 22N 2E	1790	.17	12/21/64	JAN 59-DATE	DEC 58-DATE	1958		296.00	USED

Station located above diversion dam 500 ft. S of Stilson Road, 3.6 mi. E of Chico. Tributary to Sacramento River. During periods of high water, flow is diverted via Little Chico Creek Diversion, into Butte Creek. Discharge listed does not include this diversion. Drainage area is 25.4 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02984	CHEROKEE CANAL NEAR RICHVALE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	2.2	21	65	86	265	685	103	65	23	12	24	2.6	1
2	3.5	20	65	82	209	396	72	72	28	19	29	2.5	2
3	4.2	22	66	79	189	321	62	56	28	16	34	2.6	3
4	4.4	23	67	77	433	493	55	63	15	13	31	2.7	4
5	4.6	28	67	76	445	252	51	56	20	11	27	3.1	5
6	5.3	22	86	76	839	860	48	48	19	14	27	3.4	6
7	5.1	18	145	74	1,680	491	45	44	11	19	29	3.1	7
8	5.7	32	86	91	683	302	42	22	18	25	35	3.1	8
9	6.9	23	66	1,770	680	224	39	27	21	26	45	3.8	9
10	8.4	24	70	1,390	2,060	188	37	38	21	26	44	3.8	10
11	12	154	61	2,290	1,170	173	35	38	22	27	46	4.6	11
12	20	141	48	2,690	564	150	33	44	21	28	48	4.4	12
13	25	50	51	1,360	443	104	31	39	20	28	43	4.4	13
14	31	791	49	626	977	83	30	27	21	27	39	4.6	14
15	30	442	54	610	651	75	29	25	23	28	36	4.6	15
16	29	1,220	60	3,250	352	77	28	16	25	27	33	4.8	16
17	30	256	1,700	1,570	266	80	26	30	27	25	39	5.0	17
18	28	114	962	2,270	221	75	33	38	29	25	34	5.4	18
19	28	103	1,500	1,140	185	71	41	43	25	25	27	7.1	19
20	28	92	465	599	162	148	46	44	21	26	23	7.0	20
21	28	83	251	690	122	212	43	35	23	26	33	15	21
22	28	74	188	392	95	379	50	31	27	25	61	24	22
23	26	67	146	244	85	156	49	30	21	24	60	29	23
24	25	58	189	216	135	122	49	33	17	26	47	18	24
25	25	60	149	548	436	106	65	27	17	31	40	7.7	25
26	25	60	118	441	374	95	58	25	7.5	29	47	11	26
27	26	61	106	251	2,060	96	43	28	15	25	16	15	27
28	22	62	219	200	2,110	82	65	44	16	22	3.0	15	28
29	20	62	123	229		71	66	33	16	20	3.7	13	29
30	21	63	100	1,190		66	63	22	13	19	4.6	13	30
31	21		91	404		229		28		19	3.3		31
MEAN	18.7	141	239	806	639	221	47.9	37.8	20.4	23.0	32.6	8.1	MEAN
MAX.	31.0	1,220	1,700	3,250	2,110	860	103	72.0	29.0	31.0	61.0	29.0	MAX.
MIN.	2.2	18.0	48.0	74.0	85.0	66.0	26.0	16.0	7.5	11.0	3.0	2.5	MIN.
AC. FT.	1147	8422	14703	49609	35486	13611	2850	2323	1211	1414	2006	483	AC.

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
184.1	4880	11.38	02	27	2345	1.7	2.37	08	27	1415	133265

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 27 53	121 44 3	NW34 19N 2E	15,200 E	13.80	10/13/62	JUL 60-DATE	JUL 60-DATE	1960		88.20	USCG

Station located at Butte City Road bridge, 2.1 miles S of Richvale. Backwater from Cherokee Dam weir, 1.05 miles below station, at times affects the stage-discharge relationship.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02967	BUTTE SLOUGH AT OUTFALL GATES

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	259	180	0.0	0.0	0.0	0.0	152	15	423	97	197	596	1
2	254	172	0.0	0.0	0.0	0.0	267	15	455	91	201	581	2
3	246	178	0.0	0.0	0.0	0.0	357	7.0	497	91	225	562	3
4	233	189	0.0	0.0	0.0	0.0	379	0.0	476	88	230	562	4
5	229	137	0.0	0.0	0.0	0.0	391	0.0	418	75	232	542	5
6	240	124	70	0.0	0.0	0.0	391	0.0	303	73	290	492	6
7	231	180	188	0.0	0.0	0.0	346	0.0	288	63	318	455	7
8	224	331	181	0.0	0.0	0.0	298	16	246	70	303	423	8
9	214	352	202	0.0	0.0	0.0	298	23	147	63	313	418	9
10	204	440	235	0.0	0.0	0.0	292	23	14	63	343	407	10
11	195	497	235	0.0	0.0	0.0	280	47	28	59	370	402	11
12	191	101	235 *	0.0	0.0	0.0	274	57	26	62	360	391	12
13	206 *	465	230	0.0	0.0	0.0	292	152	24	65	380	396	13
14	220	487 *	292	0.0	0.0	0.0	316	271	8.0	64	400	402 *	14
15	246	0.0	298	0.0	0.0	0.0	328	284	0.0	72	453	391	15
16	231	0.0	298	0.0	0.0	0.0	334	323	0.0	72	473	418	16
17	287	0.0	256	0.0	0.0	0.0	352	318	22	93	478	423	17
18	418	0.0	0.0	0.0	0.0	145	334	347	84	199	465	402	18
19	440	113	0.0	0.0	0.0	286	346	407	108	189	453	402	19
20	370	174	0.0	0.0	0.0	321	391	391	113	179	456	396	20
21	332	174	0.0	0.0	0.0	0.0	418	402	103	185	477	385	21
22	295	242	0.0	0.0	0.0	0.0	362	492	100	185	476	362	22
23	268	216	0.0	0.0	0.0	0.0	248	562	100	185	486	352	23
24	263	94	0.0	0.0	0.0	0.0	230	562	96	201	465	323	24
25	242	0.0	0.0	0.0	0.0	3.0	196	532	93	197	460	286	25
26	220	0.0	51	0.0	0.0	223	164	369	106	191	486	235	26
27	208	0.0	280	0.0	0.0	298	68	497	110	199	502	188	27
28	208	0.0	304	0.0	0.0	346	48	522	111	212	537	174	28
29	206	0.0	159	0.0	0.0	340	39	507	106	206	572	152	29
30	208	0.0	115	0.0	0.0	340	31	465	100	199	567	152	30
31	204	0.0	0.0	0.0	0.0	334	434	434	204	204	572	572	31
MEAN	251	162	117	0.0	0.0	85	274	259	157	129	405	389	MEAN
MAX.	418	497	304	0.0	0.0	346	418	562	497	212	572	596	MAX.
MIN.	191	0.0	0.0	0.0	0.0	0.0	31	0.0	0.0	59	197	152	MIN.
C. FT.	15460	9612	7198	0.0	0.0	5228	16310	15950	9332	7930	24480	23150	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
186	596			0.0			134600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 11 44	121 56 04	NE35 16N 1W				JUN 24-OCT 38 8	JUN 24-DATE			0.00	USED

Station located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Tributary to Sacramento River. Flow regulated by gravity culverts. During the summer months these flows, together with the flow of Butte Slough near Meridian and Wadsworth Canal near Sutter are made up almost entirely of return water from lands irrigated by Feather River diversions.

B - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02965	RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	7.4	7.4	28	38	97	183	38	26	54	25	32	55	1
2	7.4	7.4	24	9.4	67	152	38	54	54	24	10	35	2
3	7.4	7.4	0.0	0.0	67	128	9.4	77	54	27	0.0	35	3
4	7.4	0.0	0.0	0.0	67	140	13	53	19	30	0.0	40	4
5	7.4	0.0	0.0	0.0	67	128	9.5	51	54	27	0.0	61	5
6	7.4	0.0	0.0	29	100	128	29	47	40	27	0.0	55	6
7	3.7	0.0	29	27	189	128	29	47	37	24	0.0	48	7
8	3.7	0.0	39	0.0	181	103	28	30	34	27	0.0	53	8
9	3.7	0.0	9.7	29	152	98	39	17	31	26	13	37	9
10	3.7	0.0	0.0	66	236	86	39	18	28	33	32	41	10
11	0.0	0.0	0.0	83	238	69	29	41	32	32	34	39	11
12	0.0	0.0	0.0	127	178	69	29	53	32	28	28	31	12
13	0.0	0.0	0.0	124	154	69	39	47	23	30	28	20	13
14	0.0	29	0.0	91	134	41	24	74	30	23	28	48	14
15	0.0	37	0.0	67	124	43	29	57	37	24	23	39	15
16	0.0	58	0.0	164	125	68	23	70	33	28	42	35	16
17	0.0	40	0.0	224	103	63	15	76	42	28	32	58	17
18	0.0	35	4.8	237	98	37	20	108	40	28	32	59	18
19	0.0	36	32	259	99	48	29	108	38	22	34	32	19
20	11	23	10	232	76	65	29	107	34	18	32	20	20
21	0.0	0.0	20	178	69	57	10	75	30	18	30	40	21
22	7.4	19	34	136	69	68	9.4	37	35	25	28	20	22
23	7.4	17	36	96	41	64	4.7	56	24	28	30	20	23
24	7.4	0.0	34	96	56	42	29	56	32	22	38	6.2	24
25	3.7	28	33	103	109	36	17	53	30	36	9.2	0.0	25
26	3.7	37	0.0	97	85	65	12	59	37	41	0.0	0.0	26
27	3.7	9.4	25	76	111	46	5.7	52	32	45	0.0	8.3	27
28	3.7	0.0	32	67	142	38	9.4	53	40	33	0.0	0.0	28
29	3.7	0.0	0.0	70		38	19	53	43	32	5.3	0.0	29
30	3.7	0.0	0.0	126		38	21	69	33	35	28	0.0	30
31	3.7		21	120		38		84		38	35		31
MEAN	3.8	13	13.3	95.8	115	76.6	22.5	58.3	36.1	28.5	19.5	31.2	MEA
MAX.	11	58	39	259	238	183	39	108	54	45	42	61	MA
MIN.	0.0	0.0	0.0	0.0	41	36	4.7	17	19	18	0.0	0.0	MIN
AC. FT.	235	775	816	5893	6415	4713	1339	3586	2146	1753	1197	1856	AC.F

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
42.3	NR			0.0			30724

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 04 08	121 51 43	NE16 14N 1E				MAY 24-OCT 38 8					
						JAN 39-DATE					

Plant located 1.7 mi. E of Grimes. This is drainage returned by pumping and gravity. Plant also discharges additional unmeasured flows to irrigation canals.

8 - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02960	TISDALE WEIR SPILL TO SUTTER BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	4430	11000 *	0.0	0.0	0.0	0.0	0.0 *	0.0	1
2	0.0 *	0.0	0.0	0.0 *	2910	10100	0.0 *	0.0 *	0.0	0.0 *	0.0	0.0	2
3	0.0	0.0	0.0	0.0	1660	8830	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0 *	0.0	848	7670	0.0	0.0	0.0 *	0.0	0.0	0.0 *	4
5	0.0	0.0	0.0	0.0	2350	8040	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	6710	6950	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	7530	7350	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	11400 *	7330	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	12200	5760	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	571	10200	4890	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	5270	11900	3640	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	7880	11800	3910	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	14600	11400	3050	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	15100	10900	1630	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	4.7	0.0	11300	10900	127	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	2.3	0.0	8300	11600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	2580	0.0	12400	9650	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	378	423	15100 *	7720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	4470	15100	6380	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	5410	16300	5230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	2700 *	14800	4110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	22	13500	2540	44	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	12600	1060	1110	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	11800	224	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	11400	1520	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	9830	3780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	7560	4040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	5730	7740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	3840	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	3480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0 *	0.0	0.0	5780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	98.8	420	7169	6526	2949	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	3580	5840	16300	13100	11500	0.0	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	0.0	5881	25840	440800	362400	181400	0.0	0.0	0.0	0.0	0.0	0.0	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 P - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 * - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
1430	16800	49.11	1	20	1315	0.0					1040000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 36	121 49 16	NE35 14N 1E	25700	53.3	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located west of north end of weir, 5.0 mi. SE of Grimes. See Sacramento River at Tisdale Weir for stage records. Elevation of weir crest is 45.45 ft. USED datum; length of crest is 1,155 ft. Backwater from Sutter Bypass at times affects stage-discharge relationship.

- Flood season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02933	RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	106	0.0	146	105	259	580	146	208	312	265	285	259	
2	0.0	0.0	0.0	0.0	186	498	117	208	324	208	290	312	
3	0.0	132	88	0.0	176	372	0.0	236	306	211	292	338	
4	104	0.0	0.0	0.0	194	382	0.0	325	280	198	263	299	
5	0.0	0.0	0.0	181	169	286	138	279	312	211	350	315	
6	0.0	0.0	158	0.0	426	301	68	432	312	211	262	351	
7	148	0.0	0.0	111	660	254	80	320	285	211	292	472	
8	0.0	0.0	0.0	0.0	378	245	78	356	263	228	300	418	
9	0.0	0.0	0.0	196	403	170	92	372	221	262	299	467	
10	161	146	0.0	224	477	173	0.0	430	312	245	317	265	
11	0.0	154	176	225	672	167	71	423	223	211	263	198	
12	195	104	0.0	301	484	131	85	363	207	237	444	243	
13	0.0	177	0.0	312	484	166	0.0	394	235	262	294	210	
14	0.0	245	0.0	660	456	131	91	427	262	211	330	182	
15	188	236	147	302	382	119	98	375	262	317	342	156	
16	0.0	310	0.0	314	221	91	68	370	247	275	343	156	
17	140	319	115	402	170	92	0.0	409	267	262	358	146	
18	0.0	259	142	630	217	116	0.0	363	247	262	353	203	
19	0.0	177	90	672	180	88	0.0	288	254	262	465	120	
20	0.0	56	88	672	183	92	0.0	307	236	262	314	149	
21	0.0	145	90	672	156	91	96	307	214	243	355	123	
22	129	0.0	0.0	672	157	118	188	307	255	312	346	129	
23	0.0	156	168	660	131	90	96	346	264	304	338	121	
24	0.0	0.0	47	531	163	128	102	394	285	294	351	96	
25	0.0	146	0.0	292	187	134	79	386	314	262	315	77	
26	0.0	57	0.0	259	133	90	26	356	293	314	436	75	
27	0.0	0.0	192	230	374	93	50	307	260	314	314	0.0	
28	0.0	146	0.0	173	571	88	89	302	262	263	335	83	
29	210	0.0	0.0	245	90	90	220	307	208	342	343	0.0	
30	0.0	0.0	174	448	70	70	189	303	213	263	343	74	
31	0.0	0.0	0.0	259	0.0	0.0	0.0	358	284	330	330	0.0	
MEAN	44.5	98.8	58.7	314	309	179	756	341	264	258	331	201	ME
MAX.	210	319	192	672	672	580	220	432	324	317	465	472	MA
MIN.	0.0	0.0	0.0	0.0	131	0.0	0.0	208	207	198	262	0.0	MI
AC. FT.	2739	5881	3612	19330	17160	10800	4496	20940	15730	15880	20350	11970	MA

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
206	NR					0.0					148900

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		

38 52 45 121 47 29 NE30 12N 2E APR 24-OCT 38 8
 JAN 39-DATE

Plant located 4.5 mi. E of Robbins. This is drainage returned by pumping.

8 - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02955	RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
AN	3.3	13.1	7.2	47.0	55.1	40.8	11.5	43.9	53.4	44.1	57.2	30.5	MEAN
IX.													MAX.
N.													MIN.
FT.	203	780	443	2887	3060	2508	684	2699	3178	2709	3516	1817	AC.FT.

RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
33.8	NR					NR					24484

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 50 47	121 43 46	NE34 12N 2E				MAY 49-DATE					

Plant located 2.1 mi. SW of Robbins. This is drainage returned by pumping. Daily distribution of flows is not available since the plant operates on an automatic float switch.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02976	COLUSA BASIN DRAIN AT HIGHWAY 20

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	277	162	289	306	2,720	3,840	515	218	818 *	485	685	1,050	1
2	262	158	262	275	2,230	3,740	424	212	834	489	687	996	2
3	240	152	251	253	1,740	3,630	394	212	798	507	663	933	3
4	217	177	263	239	1,610	3,510	341	189	714	530	673	988	4
5	189	165	249	226	1,630	3,140	317	310	616	545	661	1,010	5
6	185	164	258	203	1,950	2,790	290	336	555	445	683	975	6
7	162	177	254	209	3,330	2,730	257	403	522	409	656	1,050	7
8	144	203	212	225	5,030	2,620	218	470	521	425	668	1,000	8
9	186	197	181	545	6,560 *	2,330	201	504	385	480	677 *	913	9
10	253	322	200	1,750	7,270	1,890	290	504 *	322	474	743	892	10
11	247	671	195	2,730	6,970	1,510	430	583	286	460	792	973	11
12	294	688	181	3,690	6,020	1,230	415	582	330	460	807	1,030	12
13	265 *	808	173	4,530	5,620	982	390	592	297	480 *	801	1,060	13
14	297	1,940	176	4,490	5,240	821	398	707	336	515	847	1,130	14
15	422	2,280 *	171	4,110	5,000	713	436	833	380	540	914	1,150	15
16	462	2,550	195	4,040	4,640	658	423	893	477	574	938	1,190	16
17	429	2,440	875	4,630	3,960	609	369	895	489	569	949	1,170	17
18	359	2,120	1,400	4,980	3,390	562	349	901 *	513	568	982	1,110	18
19	267	1,650	1,490	5,920 *	2,870	538	340	878	471	623	1,000	1,010	19
20	238	1,240	1,440	5,840	2,310	1,060	209	866	491	607	1,010	970	20
21	213	938	1,120	5,560	1,820	1,380	288	908	509	610	1,040	907	21
22	199	763	897	4,930	1,510	1,620	386	904	489	658	1,030	874	22
23	190	632	745	4,280	1,280	1,380	347	922	524	659	1,020	862	23
24	179	548	635	3,680	1,370	989	288	1,030	624	654	1,030	833	24
25	173	476	556	3,250	2,290	744	229	1,210	663	660	1,090	736	25
26	181	421	488	2,900	2,110	650	165	1,250	672	669	1,130	573	26
27	193	399	435	2,460	2,740	642	150	1,240	667	642	1,120	460	27
28	208	366	425	1,970	3,430	602	219	1,180	640	636	1,130	371	28
29	218	334	377	1,690		517 *	225	1,060	555	696	1,130	355	29
30	212	311	343	2,740		481	215	933	495	674	1,110	347	30
31	206		318	2,920		541		828		668	1,070		31
MEAN	244	781	485	2,760	3,451	1,562	317	727	533	561	894	897	ME
MAX.	462	2,550	1,490	5,920	7,270	3,840	515	1,250	834	696	1,130	1,190	MA
MIN.	144	152	171	203	1,280	481	150	189	286	409	656	347	MI
AC. FT.	15009	46516	29859	169728	191683	96097	18879	44733	31722	34534	55014	53391	AC

WATER YEAR SUMMARY

E -- ESTIMATED
NR -- NO RECORD
* -- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= -- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1087.3	7490	51.48	02	10	1600	112.0	38.19	04	27	0615	787164

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
31 11 44	122 03 34	NE34 16N 2W	25,400 E	51.93	2/21/58	JUN 24-DEC 40 8 MAY 41-DATE	JUN 24-DEC 40 8 MAY 41-DATE	1957	1957	37.09 0.00	USED

Station located at State Highway 20 Bridge, 3.0 mi. W of Colusa.

8 - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02945	COLUSA BASIN DRAIN AT KNIGHTS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	222	60	589	547	0.0	0.0	565	59	666	271	480	1020	1
2	198	60	612	556	0.0	0.0	547	22	711	256	536	986	2
3	205	38	619	547	0.0	0.0	604	9	707	256	460	980	3
4	206	60	650	521	0.0	0.0	604	6	630	256	500	912	4
5	156	16	258	530	0.0	0.0	614	0.0	519	228	464	1020	5
6	106	36	231	530	0.0	0.0	604	16	400	181	444	1020	6
7	131	16	241	521	0.0	0.0	604	32	298	83	444	1020	7
8	83	59	218	538	0.0	0.0	597	140	206	156	444	1120	8
9	83	38	116	604	0.0	0.0	298	156	104	206	464	1020	9
10	181	104	188	0.0	0.0	0.0	294	106	13	253	504	936	10
11	230	536	129	0.0	0.0	0.0	69	206	0.0	156	572	981	11
12	276	592	174	0.0	0.0	0.0	328	254	11	156	618	1100	12
13	298	726	150	0.0	0.0	0.0	309	254	0.0	106	635	1130	13
14	275	1250	156	0.0	0.0	0.0	292	341	32	156	651	1230	14
15	382	912	111	0.0	0.0	0.0	306	500	88	206	699	1260	15
16	444	0.0	147	0.0	0.0	0.0	325	651	156	254	727	1350	16
17	461	0.0	338	0.0	0.0	0.0	318	730	276	298	786	1560	17
18	298	0.0	533	0.0	0.0	0.0	256	768	298	253	872	1390 *	18
19	212	717	0.0	0.0	0.0	0.0	279	697	253	254	937	1230	19
20	196	816	0.0	0.0	0.0	556	224	621	320	341	969	1120	20
21	175	685	0.0	0.0	0.0	0.0	204	621	276	382	969	1000	21
22	177	641	0.0	0.0	0.0	0.0	253	669	206	404	985	925	22
23	154	628	0.0	0.0	0.0	0.0	309	668	276	484	1010	918	23
24	155	619	0.0	0.0	0.0	0.0	259	760	341	480	979	897	24
25	131	604	0.0	0.0	0.0	0.0	196	936	404	444	1020	841	25
26	131	597	0.0	0.0	0.0	0.0	82	1050	500	484	1100	672	26
27	106	604	0.0	0.0	0.0	432	14	1040	632	536	1180	505	27
28	106	604	512	0.0	0.0	589	53	1040	550	464	1190	386	28
29	82	612	597	0.0	0.0	612	597	178	970	323	1170	296	29
30	83	597	597	0.0	0.0	604	92	833	289	536	1110	282	30
31	60	597	597	0.0	0.0	612	612	766	500	500	1090	1090	31
AN	194	408	250	158	0.0	110	323	481	316	309	774	970	MEAN
MX	461	1250	650	604	0.0	612	614	1050	711	536	1190	1560	MAX.
MIN.	60	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	83	444	296	MIN.
AC. FT.	11910	24250	15400	9707	0.0	6754	19190	29600	18810	18990	47620	57730	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
359	1560					0.0					259000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 47 58	121 43 27	SW14 11N 2E		36.8	2/10/42	MAY 24-OCT 39 8 JAN 40-DATE	MAY 24-OCT 39 8 JAN 40-DATE	1924		0.00	USED

Station located at Knights Landing Outfall Gates, 0.3 mi. W of Knights Landing. Tributary to Sacramento River. Flow regulated by outfall gates.

B - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02950	RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	0.0	0.0	0.0	13.5	18.4	10.1	0.0	0.0	0.0	0.0	0.0	6.2	ME
MAX.													NU
MIN.													MI
AC. FT.	0.0	0.0	0.0	832	1018	623	0.0	0.0	0.0	0.0	0.0	370	AC

RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
3.9	NR					NR					2843

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 48 03	121 43 28	NW14 11N 2E				JAN 40-DATE					

Plant located 0.3 mi. W of Knights Landing. This is drainage returned by pumping between Knights Landing Outfall Gates and Sacramento River. Daily distribution of flows is not available since the plant operates on an automatic float switch.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02930	FREMONT WEIR SPILL TO YOLO BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
				NF	NF	17,800							1
				NF	NF	25,100							2
				NF	NF	25,100							3
				NF	NF	24,000							4
				NF	NF	20,800							5
				NF	NF	15,400							6
				NF	NF	14,600							7
				NF	3,765	13,900							8
				NF	12,200	12,900							9
				NF	22,900	8,400							10
N	N	N		NF	34,200	4,040	N	N	N	N	N	N	11
O	O	O		NF	39,600	NF	O	O	O	O	O	O	12
				14,700	32,400	NF							13
				36,900	28,100	NF							14
F	F	F		36,000	27,500	NF	F	F	F	F	F	F	15
				30,900	23,700	NF							16
L	L	L		53,000	20,800	NF	L	L	L	L	L	L	17
				76,000	15,900	NF							18
O	O	O		96,500	10,800	NF	O	O	O	O	O	O	19
W	W	W		96,000	6,520	NF	W	W	W	W	W	W	20
				82,500	998	NF							21
				57,800	NF	NF							22
				36,900	NF	NF							23
				26,000	NF	NF							24
				21,300	NF	NF							25
				18,200	NF	NF							26
				12,900	NF	NF							27
				7,240	NF	NF							28
				905	NF	NF							29
				NF	NF	NF							30
				NF	NF	NF							31
MN				22,701	9,978	5,872							MEAN
AX.				96,500	39,600	25,100							MAX.
IL.				0.0	0.0	0.0							MIN.
A.F.T.				1,395,860	554,150	361,070							AC.FT.

N - No flow

WATER YEAR SUMMARY

E - ESTIMATED
 N - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3,192	99,100	36.54	1	19	1800	0.0					2,311,080

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
			294,000		12-23-1955	JAN 1935-DATE					

See Sacramento River at Fremont Weir, East End, and Sacramento River at Fremont Weir, West End, for stage records and locations. Elevation of weir crest is 33.50 feet, USED datum; length of crest is 9,120 feet.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02972	BUTTE SLOUGH NEAR MERIDIAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	150	105	702	1,030	4,970	18,100	1,200	253	428	307	262	238
2	145	116	607	984	4,290	21,200	1,140	226	442	303	269	230
3	140	121	567	915	3,660	19,200	1,040	203	398	300	259	218
4	130	132	562	771	3,130	16,100	964	218	356	290	256	200
5	122	152	549	677	2,800	14,600	910	242	319	268	258	180
6	108	198	518	664	4,290	12,600	865	300	345	272	241	162
7	99	187	463	658	7,940	11,600	838	332	316	285	206	149
8	92	164	446	668	15,600	12,500	811	346	272	281	191	144
9	87	134	432	785	22,400	10,200	762	340	249	287	194	147
10	89	166	384	1,180	21,800	7,510	709	335	302	297	211	144
11	95	239	355	2,640	23,400	5,410	672	367	283	286	228	139
12	110	580	342	9,910	25,100	3,860	663	368	257	279	222	137
13	126	794	343	21,100	24,600	2,990	660	359	222	296	215	138
14	138	674	304	26,900	22,700	2,490	649	338	223	320	213	146
15	154	1,190	278	23,400	21,700	2,180	626	360	237	334	233	157
16	180	1,360	278	17,400	22,300	2,010	568	395	282	330	213	169
17	235	1,650	324	20,800	20,300	1,900	522	435	331	312	211	177
18	253	2,220	766	36,900	15,700	1,720	495	521	344	297	207	178
19	235	2,630	1,360	48,000	11,700	1,420	483	531	330	283	208	184
20	214	2,560	2,020	57,500	8,370	1,340	421	535	343	284	212	191
21	222	2,290	3,380	53,500	5,550	1,440	359	527	308	285	221	204
22	192	1,820	3,640	41,900	3,730	1,460	300	533	282	288	212	213
23	172	1,480	3,320	33,400	2,790	1,470	231	544	278	292	216	221
24	159	1,390	2,820	27,600	2,260	1,470	206	535	284	291	214	225
25	142	1,290	2,360	23,600	2,070	1,470	215	547	307	281	218	231
26	127	1,180	1,980	19,900	1,970	1,400	236	677	313	272	229	220
27	119	1,100	1,470	15,100	2,180	1,310	287	701	308	270	238	200
28	116	1,020	1,210	10,800	7,560	1,240	270	609	315	277	257	187
29	112	840	1,130	7,590		1,170	259	554	306	278	273	181
30	107	756	1,080	5,540		1,140	252	496	310	275	272	178
31	104		1,070	4,690		1,110		444		276	266	
MEAN	144	951	1,131	16,661	11,245	5,922	587	424	309	290	229	182
MAX.	253	2,630	3,640	57,500	25,100	21,200	1,200	701	442	334	273	238
MIN.	87.0	105	278	658	1,970	1,110	206	203	222	268	191	137
AC. FT.	8874	56604	69540	1024466	624515	364185	34935	26124	18426	17843	14132	10885

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- = - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3136.2		59100	56.90	01	20	1815	86.0	39.36	10	09	1330	2270532

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FRDM	TO			
39 10 05	121 53 28	NE7 15N 1E				JAN 39-DATE	NOV 34-May 37 #	1934		0.00	USED	
							OCT 37-DATE					

Station located on right bank 0.5 mi. upstream from Farmland Road 1.7 mi. NE of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods. Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

- Flood season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05929	WADSWORTH CANAL NEAR SUTTER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	192	48	61	47	229	600	120	45	180	83	110	179	1
2	17	47	58	45	201	345	117	32	157	74	106	158	2
3	1	47	54	42	186	329	99	16	137	48	127	158	3
4	1	44	47	38	209	364	89	13	123	61	114	184	4
5	141	46	51	40	189	277	98	35	109	65	160	195	5
6	1	43	39	35	411	369	104	15	70	69	159	206	6
7	141	42	37	36	704	325	103	44	54	66	123	188	7
8	126	41	38 *	42	432	259	118	34	72	81	136	177	8
9	129	48	35	289	476	223	120	74	78	94	115	141	9
10	14	56	34	367	822	204	130	68 *	69	90	120 *	155	10
11	141	79	34	572	639	201	154	79	65	103	124	159	11
12	145	77	33	888	486	241	151	129	45	109	125	211	12
13	131	71	30	667	432	140	136	143	69	88	147	242	13
14	134	147	32	410	440	127	153	179	77	70	138	235	14
15	131	144 *	30	369	367	121	170	140	97	110	156	233	15
16	121	294	30	1070	277	115	192	120	85	101	154	232	16
17	105 *	207	67	1100	240	110	179	148	90	92 *	168	232	17
18	90	138	94	1240	206	104	143	173	105	90	173	209 *	18
19	80	115	190	989	237	101	116	177	90	93	194	197	19
20	75	105	124	665	142	107 *	100	157	107	96	200	203	20
21	78	99	101	588	130	139	85	128	91	132	185	183	21
22	7	91	87	485	130	160	61	150	65	138	183	206	22
23	72	83	72	406	145	123	48	149	72	131	182	260	23
24	65	73	68	357	170	111	46	175	90	103	215	235	24
25	62	73	62	454	216	106	27	219	110	104	219	207	25
26	59	67	57	348	235	101	26	180	115	98	222	198	26
27	53	66	51	275	630	96	25	212	105	94	248	171	27
28	57	67	51	241	941 *	88	31	228	87	101	229	180	28
29	58	60	51	258		83	55	179	76	108	202	169	29
30	50	60	54	432		117	57	175	83	97	180	166	30
31	51		50	283		126		145		107	164		31
MEAN	110	85.9	58.8	422	354	191	102	121	92.4	93.4	164	196	MEAN
MAX.	196	294	190	1240	941	600	192	228	180	138	248	260	MAX.
MIN.	50	41	30	35	130	83	25	13	45	48	106	141	MIN.
C. FT.	734	5113	3614	25940	19680	11730	6056	7460	5500	5740	10070	11640	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
165	NR					NR					119300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		

39 09 12	121 44 00	NE15 15N 2E	53.62		1/26/70	MAR 61-DATE	MAR 61-DATE	1961		0.00	USED
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Station located at South Butte Road Bridge, 0.9 mi. E of Sutter. Tributary to Sutter Bypass. This station and one 2.2 mi. downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Records for January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05922	RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	50	58	16						1
2			0.0	0.0	63	16	14						2
3			0.0	0.0	67	57	5.7						3
4			0.0	0.0	60	43	24						4
5			0.0	0.0	61	43	23						5
6			0.0	0.0	63	42	17						6
7			0.0	0.0	48	54	0.0						7
8			0.0	0.0	52	35	0.0						8
9			0.0	0.0	52	35	0.0						9
10			0.0	56	58	36	0.0						10
11	N	N	0.0	65	44	39	0.0	N	N	N	N	N	11
12			0.0	55	54	36	0.0						12
13	O	O	0.0	51	54	29	0.0	O	O	O	O	O	13
14			0.0	46	52	33	0.0						14
15			0.0	59	51	0.0	0.0						15
16	F	F	0.0	51	37	42	0.0	F	F	F	F	F	16
17			0.0	67	42	64	0.0						17
18	L	L	0.0	50	32	31	0.0	L	L	L	L	L	18
19			15	47	33	32	0.0						19
20	O	O	18	39	48	28	0.0	O	O	O	O	O	20
21	W	W	14	41	46	24	0.0	W	W	W	W	W	21
22			0.0	26	52	28	0.0						22
23			0.0	39	38	10	0.0						23
24			0.0	40	43	0.0	0.0						24
25			0.0	56	34	0.0	0.0						25
26			21	45	48	0.0	0.0						26
27			27	45	54	0.0	0.0						27
28			28	50	61	19	0.0						28
29			24	65		17	0.0						29
30			17	64		25	0.0						30
31			2.2	57		31							31
MEAN			5.4	35.9	49.9	29.3	3.3						MEAN
MAX.			28	67	67	64	24						MAX.
MIN.			0.0	0.0	32	0.0	0.0						MIN.
AC. FT.			330	2210	2771	1799	198						AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
10.1	NR					NR					7308

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 57	121 44 33	NW27 14N 2E								0.00	USED

Plant located 9.9 mi. SW of Yuba City, 8.5 mi. E of Grimes. This is drainage returned by gravity.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02963	RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	20	17	19	15	82	132	12	58	48	33	33	36	1
2	18	16	24	17	79	113	15	30	44	34	34	35	2
3	18	17	20	24	64	122	10	17	53	34	34	36	3
4	17	20	0.0	24	69	100	0.0	16	50	38	33	38	4
5	22	17	0.0	22	75	92	0.0	16	23	37	33	37	5
6	17	17	21	22	99	92	0.0	27	46	40	39	43	6
7	17	17	21	21	150	92	18	9.4	38	38	43	46	7
8	18	19	20	20	138	92	24	23	32	34	47	44	8
9	20	16	20	22	133	79	27	11	32	34	42	20	9
10	20	25	20	47	168	65	27	28	38	28	37	35	10
11	19	33	20	77	212	70	17	40	22	23	38	53	11
12	19	35	20	108	155	54	21	33	43	30	37	50	12
13	20	27	20	122	132	55	22	36	35	30	47	43	13
14	20	40	0.0	122	129	48	27	35	40	23	45	36	14
15	22	67	0.0	108	110	49	26	34	35	31	45	30	15
16	22	67	21	173	100	19	26	35	39	42	42	26	16
17	19	68	21	203	88	29	27	27	37	33	31	34	17
18	18	53	45	206	90	27	11	31	49	38	34	39	18
19	19	50	32	220	84	31	4.9	50	47	38	39	36	19
20	18	49	76	210	61	31	5.6	43	47	39	54	32	20
21	16	44	48	192	68	30	10	42	44	39	47	27	21
22	17	42	47	176	55	30	22	33	47	43	44	25	22
23	17	38	49	152	54	50	22	52	32	43	46	23	23
24	18	32	34	133	60	50	22	49	40	50	46	22	24
25	17	33	39	143	66	23	6.6	46	40	40	47	23	25
26	17	0.0	30	135	57	40	11	39	38	37	46	20	26
27	17	13	22	119	140	42	15	34	38	41	47	20	27
28	17	54	22	92	175	29	27	35	32	34	41	16	28
29	18	2.6	21	92	23	23	48	36	34	42	46	16	29
30	15	17	20	120	25	25	35	36	37	39	39	14	30
31	15		0.0	111		20		47		35	37		31
AN.	18.3	31.5	24.3	105	103	56.6	18	33.8	39.3	36.1	41.2	31.8	MEAN
MX.	22	68	76	220	212	132	48	58	53	50	54	53	MAX.
MIN.	15	0.0	0.0	15	54	19	0.0	9.4	22	23	31	14	MIN.
TOT. FT.	1125	1876	1492	6442	5738	3479	1069	2079	2340	2221	2535	1894	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
43.1	NR					NR					32290

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 44	121 46 53	SE30 14N 2E				JAN 25-DATE					

Plant located on north levee of Tisdale Bypass, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. This drainage returned by pumping and gravity.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02926	RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	88	32	89	77	371	993	96	219	471	225	334	332
2	78	0.0	89	88	398	413	104	111	465	224	334	365
3	88	36	109	97	396	605	96	200	619	211	330	293
4	78	48	97	48	428	832	89	226	496	219	169	328
5	71	24	65	48	366	542	97	243	498	228	399	328
6	49	0.0	70	30	812	526	97	240	477	223	309	326
7	47	68	75	76	958	469	69	258	142	224	334	429
8	36	0.0	79	72	668	491	42	231	511	219	321	479
9	22	48	28	266	646	408	52	152	452	219	334	577
10	42	32	72	263	953	374	78	192	325	208	371	439
11	72	100	28	459	1180	365	68	372	362	211	297	443
12	51	76	64	744	732	295	80	360	404	217	433	429
13	28	99	38	707	588	244	115	319	230	213	325	385
14	36	196	61	641	595	277	76	285	237	204	346	350
15	56	392	30	434	506	261	133	330	223	198	350	288
16	52	462	57	869	417	205	83	254	203	343	354	262
17	66	200	109	1370	416	206	137	293	220	295	358	215
18	36	220	100	1350	412	204	88	363	203	288	379	247
19	44	189	163	1420	356	272	97	363	228	248	457	207
20	54	83	250	1160	360	273	0.0	415	247	283	374	159
21	46	184	176	774	311	261	151	384	247	276	369	127
22	34	132	175	486	311	196	114	429	241	392	357	127
23	126	112	153	494	266	175	119	531	229	285	319	126
24	15	84	117	482	315	183	119	568	235	334	290	127
25	0.0	125	141	553	313	184	78	528	348	334	333	126
26	0.0	136	87	500	372	174	124	559	310	334	343	95
27	36	60	143	446	716	166	132	597	319	334	420	79
28	36	73	104	412	1250	159	99	595	189	315	363	62
29	26	81	92	464	156	156	144	545	194	354	357	64
30	44	89	96	730	144	144	198	571	214	334	328	64
31	0.0		96	698	144	144		565		334	348	
MEAN	47	113	98.5	524	550	329	99.2	364	318	269	346	263
MAX.	126	462	250	1420	1250	993	198	597	619	392	457	577
MIN.	0.0	0.0	28	30	266	144	0.0	111	142	198	169	62
AC. FT.	2890	6706	6056	32250	30570	20220	5901	22410	18920	16510	21290	15650

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - END *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
275	NR			NR			199400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 47 05	121 39 18	NE20 11N 3E									
						APR 30-OCT 38 8					
						JAN 39-DATE					

Plant located on west levee of Sutter Bypass, 3.7 mi. SE of Knights Landing. This is drainage returned by pumping and gravity.

8 - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02925	SACRAMENTO SLOUGH AT SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	425	185	1000	1280	F	F	1500	639	1360	720	840	1160	1
2	438	138	884	1200	F	F	1580	417	1350	742	795	1140	2
3	450	165	853	1130	F	F	1520	360	1440	160	847	1080	3
4	397	223	857	976	F	F	1460	373	1370	733	865	1010	4
5	366	197	777	859	F	F	1410	356	1220	694	919	1050	5
6	296	148	760	765	F	F	1300	300	1090	789	820	1040	6
7	254	258	791	715	F	F	1170	324	920	762	930	1060	7
8	223	183	752 *	611	F	F	1050	473	1000	738	784	1110	8
9	218	254	603	647	F	F	1070	511	940	719	819	1250	9
10	253	215 *	593	0.0	F	F	1030	625	842	721	818 *	1020	10
11	305	364	563	F	F	F	573	619 *	776	735	865	1070	11
12	376	400	559	F	F	F	832	673	685	735	877	1090	12
13	342	731	164	F	F	F	919	754	624	729	818	1080	13
14	340	1180	484	F	F	F	958	853	620	705	899	1100	14
15	314	875	458	F	F	F	1020	975	762	680	888	1080	15
16	318	943	492	F	F	F	974	856	1000	750	895	941	16
17	411 *	867	623	F	F	F	987	933	973	740 *	981	853	17
18	402	2480	597	F	F	4890	937	1040	1010	763	989	919 *	18
19	460	3450	0.0	F	F	4020	799	1130	858	777	1010	943	19
20	438	3070	F	F	F	3230 *	740	1360	608	768	1000	855	20
21	381	2900	F	F	F	2160	841	1090	712	739	1050	770	21
22	336	2790	F	F	F	0.0	739	1100	882	870	1030	770	22
23	408	2690	F	F	F	561	548	1100	1030	769	1030	717	23
24	284	2330	4570	F	F	F	455	1430	870	776	1010	781	24
25	164	2060	4330	F	F	F	350	1500	1080	811	1050	806	25
26	204	1860	4040	F	F	3730	366	1660	1060	811	1120	755	26
27	163	1660	3680	F	F	3040	301	1770	964	815	1120	693	27
28	201	1470	3130	F	F	2420	356	1760	829	834	1180	618	28
29	161	1280	2470	F	F	1950	454	1710	795	904	1130	446	29
30	191	1070	1850	F	F	1780	673	1540	720	831	1100	431	30
31	149		1500	F	F	1660		1460		854	1150		31
AN.	312	1215	NR	NR	NR	NR	897	958	946	767	956	921	MEAN
MAX.	460	3450	NR	NR	NR	NR	1580	1770	1440	904	1180	1250	MAX.
MIN.	149	138	NR	NR	NR	NR	301	300	608	680	784	431	MIN.
AC.FT.	19180	72270	NR	NR	NR	NR	53380	58890	56310	47160	58770	54820	AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
NR	NR			NR			NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 46 52	121 38 27	SE21 11N 3E				JUN 24-OCT 39 8 JAN 40-DATE	APR 45-DEC 46 8 APR 47-DATE				

Station located 0.5 mi. above mouth, 4.6 mi. SE of Knights Landing. During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows (above gage ht. 26.0 ±) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow.

- B - Irrigation season only.
- F - Flooded

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A55420	FEATHER RIVER, MIDDLE FORK, NEAR PORTOLA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	34	50	100 *	79	175	1,940 *	281	245	126	27	12	73
2	33 *	52 *	59	86	143	1,730	273	240	126	28	12	16
3	32	56	58	79	143	1,410	259	197	139	29	14	15
4	32	73	63	77	144	1,040	240	180	144	28	16	15
5	32	86	59	73	151	783	225	190	152	27	16	15
6	32	105	54	61	166	658	217	215	158	23	16	14
7	32	128	43	57	184	583	223	220	151	20	13	15
8	32	115	35	55	204 *	544	272	220	136	20	4.3	15
9	33	96	36	56	237	523	250	199	118	18	14	15
10	35	93	38	58	259	510	268	186	103	18	15	14
11	37	93	53	61	294	600	275	172	91	18	15	11
12	37	94	75	75	371	724	284	160	82	17	13	11
13	41	98	69	126	424	610	295	152	75	18	10	11
14	43	107	74	706	388	466	308	145	69	16	10	11
15	44	131	83	1,140	358	407	316	138	61	15	10	11
16	45	180	80	1,040 *	340	359	324	141	49	14	9.7	13
17	49	186	73	1,330	333	303	325	140	44	16	9.4	15
18	54	178	73	1,860	325	293	310	142	47	17	9.7	15
19	60	168	118	880	300	286	292	154	60	17	10	15
20	60	157	180	1,080	287	279	265	153	52	17	10	16
21	58	149	311	737	279	268	218	150	49	16	11	15
22	56	144	757	482	292	254	182	144	41	16	12	14
23	52	139	468	377	329	237	199	142	46	19	15	15
24	48	134	475	302	391	222	203 *	120	41	20	16	15
25	44	134	312	219	580	211	161 *	112 *	39	16	17	15
26	42	137	230	215	810	218	166	119	35	13	17	17
27	41	139	178	220	1,070	234	118	119	30 *	12	16	18
28	47	138	142	174	1,530	253	197	122	29	12	16	18
29	53	137	111	158		263	209	121	28	13	15	19
30	53	134	115	144		264	226	126	27	12	15	20
31	51		84	147		274		136		12 *	43 *	
MEAN	43.3	121	148	392	375	540	246	161	78.3	18.2	13.9	16.7
MAX.	60.0	186	757	1,860	1,530	1,940	325	245	158	29.0	43.0	73.0
MIN.	32.0	50.0	35.0	55.0	143	211	118	112	27.0	12.0	4.3	11.0
AC. FT.	2662	7202	9136	24107	20840	33215	14640	9917	4657	1119	857	996

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
178.7	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	129348
	2660	6.88	01	18	0200	3.4	1.78	08	08	1400	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 49 07	120 26 37	NE 29 23N 14E	9,300	10.34	3-18-1967	NOV 1955-DATE	NOV 1955-DATE	1955	1965	0.00	LOCAL
								1965		1.00	LOCAL

Station located south of State Highway 70, 1.8 miles northeast of Portola. Stage-discharge relationship at times affected by ice.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A54455	RED CLOVER CREEK ABOVE ABBEY BRIDGE DAMSITE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.2	3.4*	4.2*	8.1	17	97	142	88	19	2.9		NR	1
2	1.9*	3.3	4.3	7.8	19	105	111	79	17	2.8		NR	2
3	1.1	3.3	5.4	8.2	20	101	117	76	16	NR		NR	3
4	1.0	10	4.8	7.1	20	91	169	78	15	NR		NR	4
5	1.2	7.0	4.6	5.9	20	82	229	90	14	NR		NR	5
6	1.3	4.5	5.6	6.2	19	79	280	81	14	NR		NR	6
7	1.2	4.8	4.8	5.8	19	71	254	69	14	NR		NR	7
8	1.5	5.2	6.5	6.5	18	71	199	62	13	NR		NR	8
9	1.7	3.8	9.7	8.2	18	70	199	55	13	NR		NR	9
10	1.9	5.0	11	8.6	18	97	206	49	13	NR	N	NR	10
11	3.9	5.7	12	13	23	140	199	45	13	NR	O	NR	11
12	7.5	5.1	12	204	19	111	199	42	12	NR		NR	12
13	2.5	6.1	12	68	17	95	182	41	12	NR		NR	13
14	1.9	11	13	37	18	82	169	36	13	NR		NR	14
15	3.0	9.0	13	25	18	76	159	31	13	NR	R	NR	15
16	3.8	8.6	12	102	18	87	140	37	13	NR	E	NR	16
17	4.3	7.2	15	97	20	102	140	31	12	NR		NR	17
18	3.3	5.8	22	62	21	95	129	28	12	NR	C	NR	18
19	3.0	6.3	85	130	24	97	115	23	11	NR		1.3*	19
20	2.7	5.5	52	59	35	93	104	22	10	NR	O	1.9	20
21	2.4	4.8	39	32	30	83	93	20	9.5	NR	R	1.5	21
22	2.3	5.3	112	25	26	78	91	19	8.0	NR		3.9	22
23	2.3	4.2	38	23	26	87	96	18	7.3	NR	D	2.1	23
24	2.4	4.5	26	25	32	115	99	18	7.1	NR		1.7	24
25	2.3	4.6	18	23	35	156	99	18	6.9	NR		1.9	25
26	2.6	4.8	16	21	40	199	102	17	5.8	NR		2.0	26
27	2.6	5.1	15	20	53	213	111	16	4.7	NR		1.9	27
28	2.5	4.9	13	20	77	164	118	15	4.3	NR		2.2	28
29	2.6	4.6	15	22		124	111	14	3.6	NR		2.1	29
30	2.5	4.3	10	23		121	101	15	3.0	NR		2.3	30
31	2.9		9.2	19		144		18					31
MEAN	2.5	5.6	20.0	36.2	25.7	107	148	40.4	11.0	NR	NR	NR	MEAN
MAX.	7.5	11.0	112	204	77.0	213	280	90.0	19.0	NR	NR	NR	MAX.
MIN.	1.0	3.3	4.2	5.8	17.0	70.0	91.0	14.0	3.0	NR	NR	NR	MIN.
AC. FT.	155	333	1230	2226	1428	6597	8852	2481	653	NR	NR	NR	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 58 05	120 31 09	SE 4 24N 13E	3,460 E	11.36	12-22-1964	DEC 1962-DATE	DEC 1962-DATE	1962		0.00	LOCAL

Station located above bridge on Forest Service road, 13 miles east of Genesee, 11 miles north of Portola. Stage-discharge relationship at times affected by ice. Drainage area is 87.9 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A54750	LAST CHANCE CREEK AT DIXIE REFUGE DAMSITE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

DATA INSUFFICIENT TO COMPUTE DISCHARGE

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 05 28	120 21 46	SE 23 26N 14E	1,570 E	7.42	12-22-1964	OCT 1964-DATE	JULY 1963-DATE	1963	1968	0.00	LOCAL
								1968		0.00	LOCAL

Station located on Forest Service road, 5.7 miles south of Milford. Tributary to Indian Creek via Red Clover Creek. Stage-discharge relationship at times affected by ice. Maximum discharge listed is at site and datum then in use. Prior to October 2, 1968, station located 0.8 mile downstream.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A54370	INDIAN CREEK NEAR TAYLORSVILLE

LY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
	49	57	77	144	148	780	655	829	300	75	45	38	1
	51	58	77	141	148	668	565	771 *	271	73	43	44	2
	48 *	64	83	135	154	570	525	771	236	66 *	42	45	3
	44	122	88	100	164	498	611	775	208 *	62	41	45	4
	43	160	78	100	165	432	845	785	190	59	40	45	5
	41	139	83	107	167	408	1,100	761	177	60	39	45	6
	42	128	83	100	185	366	1,400	673	166	60	38	45	7
	42	142	80	95	191	349	1,090	646 *	156 *	60	39	45	8
	45	125	78	110	201	331	1,170	632	145	59	39	45	9
	58	128	85	132	283	388	1,270	650	139	56	40	45	10
	95	133	81	142	289	611	1,300	686	130	56	41	45	11
	71	129	82	495 *	274	537	1,350	741	138 *	55	41	44	12
	64	120	81	767	247	475	1,300 *	865	132	53	39	40	13
	58	150	82	428	234	404	1,140	875	130	51	38	37	14
	62	139	86	346	221	375	1,130	855 *	129	51	40	37	15
	69	160 *	95	1,210	207	396	1,010	839	127	52	39	37	16
	74	135	139	889	208	459	1,020	824	124	52	37	37	17
	66	120	230	746 *	207	437	970	761	117	52	37	38	18
	64	106	369	541	201	447	880	713	108	49	35	39	19
	63	102	339	420	204	433	800	603	103 *	47	31	51 *	20
	59	98	294 *	331	207 *	386	732	533 *	99	45	32	45	21
	58	93	641	250	217	373	722	460 *	89	44	32	42	22
	56	79	491	196	213	386	804	413 *	89	44	35	46	23
	55 *	80	349	191	254	438	875	410	89	44	38	46	24
	55	78	259	185	339	611	896	392 *	89	45	40	46	25
	55	79	214	178	335	790	964	356	88	45	43	45 *	26
	55	81	205	173	393	850	1,060	325	83	45 *	53	42	27
	56	80	191	169	901	677	1,100	300	80	45	47	42	28
	56	80	147	164		557	1,060	280	78	45	44	41	29
	54	78	154	169		632	959	303	76	46	38	40	30
	56		152	164		650		334		47	36		31
MEAN	56.9	108	177	300	248	506	976	618	136	53.0	39.4	42.7	MEAN
MAX.	95.0	160	641	1,210	901	850	1,400	875	300	75.0	53.0	51.0	MAX.
MIN.	41.0	57.0	77.0	95.0	148	331	525	280	76.0	44.0	31.0	37.0	MIN.
TOTAL	3499	6432	10895	18482	13799	31168	58122	38005	8104	3259	2424	2543	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
271.7	1400	8.11	04 07 0000	9.0	3.92	09 18 1245	196732

E - ESTIMATED
 N - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - E AND *

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
40 02 54	120 48 55	NW 12 25N 10E	30,200 E	10.65	2-1-1963	APR 45-AUG 54 *	APR 45 AUG 54 *	1954	1963	0.00	LOCAL
						AUG 54-DATE	AUG 54-DATE	1963		0.00	LOCAL

Station located 0.5 mile above Montgomery Creek, 2.3 miles southeast of Taylorsville. Maximum discharge listed at site and datum then in use. Drainage area is 526 square miles.

* - Maintained by watermaster service for irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A52250	FEATHER RIVER, WEST BRANCH, NEAR PARADISE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.8	1.0 *	31 *	86	308	1,400 *	416	745	681	17	2.1	1.6
2	0.7 *	1.0	31	77	272	1,150	361 *	750	568	15 *	7.5	1.6
3	0.7	1.6	33	72 *	282	965	340	750 *	516	14	2.5	1.5
4	0.6	128	76	58	482	860	340	780	464 *	12	2.1	1.5
5	0.6	146	37	55	606	755	374	609	443	11	2.1	1.5
6	0.8	74	40	53	582	790	433	609	359	9.9	2.1	1.5
7	0.8	126	37	49	790	678	476	700	332	9.0	2.1	1.5
8	0.8	105	23	52	614	606	440	755	338	8.6	1.8 *	1.5
9	1.0	76	32	419	610	554	492	760	332	7.8	1.5	1.5
10	19	96	29	439	1,180	640	532	780	335	7.0	1.5	1.3
11	60	176	26	768	890	811	568	830	275	9.1	1.5	1.1
12	90	99	37	2,050	695	582	636	926	250	7.6	1.4	1.3
13	8.1	141	42	1,450	622	510	650	1,110	230	5.2	5.9	1.4
14	5.4	458	50	775	638	450	548	1,200	188	4.0	1.7	1.5
15	71	243	37	828	550	412	552	1,180	179	3.3	1.4	1.5
16	105	445	48	4,270	470	398	512	1,130	134	3.2	1.4	1.5
17	120	180	586	1,990	412	422	540	1,160	120	3.0	1.4	1.5
18	63	117	584	2,190	371	371	548	1,280	103	2.9	1.4	1.5
19	43	134	980	1,290	340	377	504	1,260	95	2.7	1.4	1.8
20	37	99	499	865	342	446	468	1,070	77	2.6	1.4	35
21	34	70	333	678	350	422	456	914	66	2.6	1.4	11
22	31	54	1,240	578	338	398	504	855	55	2.5	1.7	3.2
23	29	44	583	443	325	377	600	815	48	2.3	1.8	9.2
24	25	63	394	377	643	356	715	920	46	2.2	1.8	13
25	30	66	295	250	725	356	765	1,250	38	2.2	1.8	7.0
26	22	68	232	335	874	353	875	790	33	4.2	1.9	3.3
27	1.9	65	205	298	1,850	365	968	690	28	2.9	2.0	2.1
28	1.3	35	180	272	1,770	348	980	765	25	2.6	1.9	1.8
29	1.1	32	140	312	328	328	920	795	21	3.2	1.8	1.5
30	1.1	31	118	362	335	335	815	681	19	4.0	1.6 *	1.1
31	1.0		102	350	490	490		720		2.3	1.6	
MEAN	26	112	228	713	640	558	578	890	213	6.0	2.0	4.0
MAX.	120	458	1,240	4,270	1,850	1,400	980	1,280	681	17	7.5	35
MIN.	.6	1.0	23	49	272	328	340	609	19	2.2	1.4	1.1
AC. FT.	1,610	6,690	14,040	43,820	35,570	34,320	34,370	54,700	12,690	369	126	231

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
329											238,500

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 12	121 33 42	SE 6 22N 4E	26,300	26.2	12-22-1964	OCT 1957-DATE	OCT 1957-DATE	1957		0.00	LOCAL

Station located 0.6 mile upstream from Griffin Gulch and 4.0 miles northeast of Paradise. Drainage area is 110 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A55100	FEATHER RIVER, MIDDLE FORK, NEAR MERRIMAC

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	212	265	488	820	1,220	4,980	1,660	3,260	2,160	470	236	187	1
2	221	268	484	767	1,180	4,880	1,580	3,220	1,940	455	228	208	2
3	224	292	467	764	1,190	4,180	1,520	3,310	1,770	439	224	235	3
4	211	1,070	582	688	1,420	3,650	1,530	3,270	1,670	432	219	195	4
5	208	881	452	615	1,660	3,060	1,650	2,790	1,590	421	219	184	5
6	208	577	463	644	1,640	2,790	1,920	2,580	1,560	408	219	180	6
7	208	664	475	582	1,890	2,500	2,210	2,720	1,490	395	217	179	7
8	214	689	428	603	1,830	2,310	2,160	2,950	1,430	385	215	175	8
9	232	573	401	773	1,840	2,150	2,370	3,090	1,360	376	212	173	9
10	436	579	410	858	2,770	2,210	2,630	3,230	1,280	366	205	173	10
11	944	650	430	1,450	2,550	2,680	2,830	3,510	1,170	354	200	173	11
12	729	598	444	5,330	2,400	2,500	3,090	3,870	1,090	345	204	173	12
13	402	590	400	4,690	2,170	2,440	3,150	4,450	1,020	341	203	170	13
14	333	964	364	3,310	2,130	2,140	2,830	4,560	964	332	198	166	14
15	389	873	365	3,530	1,910	1,930	2,750	4,650	916	331	191	165	15
16	519	1,080	437	8,840	1,840	1,850	2,620	4,610	860	325	187	163	16
17	522	888	1,380	6,650	1,760	1,840	2,790	4,650	812	345	183	163	17
18	441	759	2,510	6,590	1,680	1,700	2,800	4,620	770	332	179	163	18
19	375	755	4,550	5,020	1,600	1,680	2,610	4,390	729	314	177	166	19
20	348	681	3,080	3,570	1,550	1,710	2,440	3,950	712	304	175	303	20
21	333	628	2,050	3,280	1,530	1,620	2,310	3,450	685	300	173	262	21
22	319	595	3,890	2,490	1,500	1,530	2,330	3,140	658	296	173	219	22
23	308	562	2,550	2,080	1,510	1,480	2,560	2,960	630	291	173	308	23
24	293	534	2,130	1,880	2,040	1,460	2,870	3,100	630	284	173	268	24
25	281	519	1,830	1,770	2,910	1,510	3,070	3,250	605	279	181	252	25
26	276	513	1,560	1,550	3,030	1,580	3,400	2,680	580	272	231	222	26
27	272	521	1,370	1,410	4,100	1,720	3,810	2,380	550	264	254	209	27
28	268	510	1,240	1,340	4,980	1,750	3,960	2,340	535	259	245	205	28
29	268	511	1,070	1,340		1,660	3,860	2,440	510	257	215	205	29
30	267	504	952	1,320		1,640	3,520	2,430	485	248	203	204	30
31	264		903	1,300		1,720		2,310		240	194		31
MEAN	340	636	1,231	2,447	2,065	2,285	2,628	3,360	1,039	337	203	202	MEAN
MAX.	944	1,080	4,550	8,840	4,980	4,980	3,960	4,650	2,160	470	254	308	MAX.
MIN.	208	265	364	582	1,180	1,460	1,520	2,310	485	240	173	163	MIN.
AC.FT.	20,880	37,870	75,680	150,500	114,700	140,500	156,400	206,600	61,810	20,750	12,510	12,000	AC.FT.

WATER YEAR SUMMARY

E - ESTIMATED
 N - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 * - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1,395											1,010,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 42 30	121 16 10	NE 2 21N 6E	86,200	26.50	12-22-1964	OCT 1951-DATE	OCT 1951-DATE	1951		0.00	LOCAL

Station located 400 feet from bridge on Millsap Bar Road, 500 feet downstream from Little North Fork, 4.5 miles southeast of Merrimac, and 20 miles northeast of Oroville. Altitude 1,560 feet. Drainage area is 1,062 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A56080	FEATHER RIVER, SOUTH FORK, AT PONDEROSA DAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	184	63	285	280	466	902	502	394	250		0.0	361	
2	184	210	280	295	472	822	472	210	121		0.0	366	
3	184	187	290	305	460	731	432	484	114		0.0	366	
4	185	205	310	300	645	710	427	416	74		0.0	299	
5	182	196	290	300	724	664	427	422	0.0		0.0	134	
6	185	174	300	300	684	704	427	405	0.0		0.0	126	
7	184	210	300	295	836	684	422	400	0.0		0.0	126	
8	185	228	290	305	745	250	422	394	0.0		0.0	126	
9	181	117	174	422	697	612	432	394	0.0		0.0	121	
10	182	214	275	550	1,080	520	454	258	0.0		0.0	114	
11	182	236	300	612	1,020	606	438	178	0.0	N	266	110	
12	183	196	300	910	865	574	250	182	0.0		308	117	
13	182	205	300	638	752	544	427	175	0.0	O	242	121	
14	183	444	300	508	745	532	438	169	0.0		239	121	
15	183	438	295	514	710	520	438	174	0.0		236	103	
16	182	490	305	1,370	658	490	432	601	0.0	F	233	90	
17	178	416	410	843	600	484	427	388	0.0		233	86	
18	157	372	410	1,260	580	472	427	383	0.0	L	233	90	
19	160	410	350	1,020	544	466	422	383	0.0		233	90	
20	177	388	444	780	520	520	422	383	0.0	O	384	74	
21	183	361	410	645	478	484	416	383	0.0	W	340	20	
22	184	305	410	574	478	484	416	196	0.0		356	21	
23	184	310	350	526	472	484	422	366	0.0		361	23	
24	184	310	383	502	562	484	410	378	0.0		361	28	
25	183	300	366	508	645	449	394	383	0.0		356	27	
26	183	300	340	416	632	449	388	378	0.0		356	20	
27	184	290	340	449	925	438	427	372	0.0		361	21	
28	184	290	340	460	1,150	422	444	372	0.0		356	15	
29	169	280	340	514	410	410	427	361	0.0		350	1.0	
30	150	257	335	356	410	410	427	366	0.0		356	17	
31	62		260		574	574		366			361		
MEAN	176	280	325	556	684	545	424	346	18.6		210	111	
MAX.	185	490	444	1,370	1,150	902	502	601	250		384	366	
MIN.	62	63	174	280	460	410	250	169	0.0		0.0	1.0	
AC. FT.	10,820	16,670	20,000	34,190	37,970	33,510	25,210	21,250	1,110		12,930	6,610	

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
304							220,300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 32 52	121 18 11	SE 33 20N 6E	11,000	12.70	12-22-1964	JULY 1962-DATE	JULY 1962-DATE	1962	1967	0.00	LOCAL
								1967		0.00	USCGS

Station located at entrance to Miners Ranch Canal on the left end of Ponderosa Dam, 2,800 feet upstream from Sucker Run, and 2.6 miles northwest of Forbestown. Prior to October 1, 1967, at site 1,800 feet downstream. Drainage area is 108 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A56911	PALERMO CANAL AT OROVILLE DAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	4.2	4.3	4.4	2.5	2.6	4.9	14	20	21	22	20	1
2	12	4.2	4.3	4.4	2.4	2.5	4.8	14	18	21	22	20	2
3	12	4.2	4.3	4.4	2.4	2.5	2.6	15	17	21	22	20	3
4	12	4.2	4.3	4.4	2.4	2.5	1.2	17	17	21	22	20	4
5	12	4.2	4.3	4.4	2.5	2.5	1.3	17	17	21	21	20	5
6	12	4.3	4.3	4.4	2.5	2.5	1.3	17	17	21	20	20	6
7	12	4.3	4.3	4.4	2.5	2.5	1.3	17	17	21	20	20	7
8	12	4.3	4.3	4.4	2.5	2.5	1.4	18	17	21	20	20	8
9	12	4.3	4.3	4.4	2.5	2.5	1.6	19	18	22	20	20	9
10	10	4.3	4.3	4.5	2.5	2.5	2.0	19	19	23	20	20	10
11	6.0	4.3	4.3	4.5	2.6	2.5	2.0	19	19	23	19	20	11
12	4.3	4.3	4.3	4.5	2.6	2.4	2.4	19	19	23	19	19	12
13	4.3	4.3	4.3	4.5	2.5	2.5	5.8	19	19	23	20	19	13
14	4.2	4.3	4.3	4.5	2.6	2.5	5.9	19	19	23	20	18	14
15	4.3	4.3	4.3	4.5	2.6	2.4	5.9	19	19	23	20	18	15
16	4.3	4.3	4.3	4.5	2.5	3.6	5.9	19	19	23	20	18	16
17	4.3	4.3	4.3	4.5	2.6	4.8	6.0	19	19	23	21	18	17
18	4.3	4.3	4.3	4.5	2.6	4.8	6.0	19	19	23	22	18	18
19	4.3	4.3	4.3	4.5	2.6	4.8	6.0	19	19	23	22	18	19
20	4.4	4.3	4.3	4.5	2.6	4.8	6.0	19	20	20	22	18	20
21	4.5	4.3	4.3	4.5	2.6	4.8	6.0	19	21	23	22	18	21
22	4.5	4.3	4.3	4.5	2.6	4.8	6.0	20	21	21	22	18	22
23	4.5	4.3	4.3	4.5	2.6	4.9	8.2	20	21	21	22	18	23
24	4.5	4.3	4.3	3.3	2.6	4.8	10	20	21	21	22	16	24
25	4.5	4.3	4.3	2.5	2.6	4.9	10	20	21	21	22	13	25
26	4.5	4.3	4.3	2.5 *	2.6	4.9	13	20	21	22	22	12	26
27	4.5	4.3	4.3	2.5	2.6	4.9	14	20	21	22	20	10	27
28	4.5	4.3	4.3	2.5	2.7	4.9	14	20	21	22	20	12	28
29	4.5	4.3	4.4 *	2.5		4.9	14	20	21	22	20	15	29
30	4.5	4.3	4.4	2.5		5.0	14	20	21	22	20	16	30
31	4.5		4.4	2.5		5.0		20		22	20		31
AN.	6.8	4.3	4.3	4.0	2.6	3.7	6.1	18.6	19.3	21.9	20.8	17.7	MEAN
AX.	12	4.3	4.4	4.5	2.7	5.0	14	20	21	23	22	20	MAX.
MIN.	4.2	4.2	4.3	2.5	2.4	2.4	1.2	14	17	20	19	10	MIN.
AC. FT.	421	255	265	245	142	226	364	1,142	1,146	1,347	1,281	1,055	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
10.8	25.4	1.25	7	21	0315	1.2		4	4		7,889

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 32 00	121 28 55	SW 1 19N 4E	29 E	1.32	1-20-1964	APR 1963-DATE	APR 1963-DATE	1963		0.00	LOCAL

Station is located at the outlet of the relocation tunnel of Palermo Canal, 50 feet southeast of toe of the dam.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05191	FEATHER RIVER AT OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	428	426	399	388	419	413	407	412	409	411	409	431	
2	430	411	400	398	420	414	406	409	408	410	413	420	
3	432	410	400	403	417	414	403	411	407	419	415	416	
4	435	410	399	403	420	415	405	411	408	409	412	425	
5	429	411	396	405	421	413	408	411	404	414	412	426	
6	430	410	397	397	433	414	411	410	405	418	415	421	
7	430	407	398	398	429	413	407	413	406	414	415	415	
8	430	409	402	406	426	415	406	412	407	413	412	408	
9	430	406	402	416	422	412	408	411	405	415	414	407	
10	430	409	398	404	422	412	408	411	408	414	412	411	
11	430	411	397	444	414	409	405	408	409	414	407	416	
12	432	407	395	417	411	406	410	413	409	415	408	417	
13	436	408	399	400	412	404	408	412	412	414	410	416	
14	435	413	405	398	416	403	408	411	412	422	402	417	
15	432	408	408	409	416	403	408	412	405	420	406	415	
16	426	407	403	14,500	411	402	410	411	401	416	408	418	
17	412	404	418	29,000	410	408	417	407	399	416	407	416	
18	414	403	414	29,000	416	405	422	404	401	416	408	408	
19	409	403	408	21,900	415	411	417	402	406	414	404	410	
20	408	404	408	5,480	416	385	411	402	409	409	406	412	
21	409	402	400	447	417	380	407	407	409	403	405	414	
22	407	398	395	424	418	381	410	404	409	403	404	411	
23	405	397	395	407	418	391	415	404	410	405	407	412	
24	405	401	396	411	418	406	412	410	409	408	400	409	
25	404	397	397	413	415	409	421	412	413	403	392	410	
26	412	401	398	414	418	406	434	408	408	398	390	408	
27	416	400	398	407	447	408	426	409	405	404	402	409	
28	410	404	400	405	416	407	418	406	408	398	414	408	
29	411	401	396	416	409	409	419	405	410	401	423	408	
30	411	403	395	424	406	406	420	407	412	409	422	408	
31	410		394	423	407	407		409		412	434		
MEAN	421	406	400	3,566	419	406	412	409	407	411	409	414	
MAX.	436	426	418	29,000	447	415	434	413	413	422	434	431	
MIN.	404	397	393	388	410	380	403	402	399	398	390	407	
AC. FT.	25,860	24,160	24,620	219,300	23,270	24,950	24,530	25,140	24,250	25,260	25,160	24,640	

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
678	29,500		1	16	1715						491,130

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 31 18	121 32 48	SE 8 19N 4E	230,000		3-19-1907	OCT 1901-DATE	OCT 1901-DATE	1912	1934	139.53	USCGS
								1934	1962	182.02	USCGS
								1962	1964	0.00	USCGS
								1964		148.97	USCGS

Station located 300 feet above Fish Barrier Dam, 0.6 mile northeast of Oroville. Flow is regulated by reservoirs and powerplants. Flows diverted through Fish Hatchery are included. Maximum discharge listed at site then in use (approximately 167.5 feet, USCGS Datum). Drainage area is 3,626 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05975	THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2,570	2,190	1,720	2,400	7,900	16,300	1,260	2,550	2,610	2,460	4,020	2,450	1
2	2,580	1,930	1,710	2,430	7,940	16,300	1,270	2,560	2,490	2,490	4,520	2,430	2
3	2,570	1,700	1,730	2,670	7,830	15,600	1,180	2,560	2,460	2,530	4,690 *	2,880	3
4	2,580	1,670	1,730	3,400	7,910	15,200	1,060	2,570	2,480	2,490	4,710	2,950	4
5	2,600	1,640	1,720	3,530	8,340	15,000	943	2,540	2,500	2,510	4,710	2,970	5
6	2,640	1,660	1,860	3,970	8,960	15,100	754	2,530	2,510	2,530	4,730	3,000	6
7	2,630	1,680	2,070	5,220	8,970	15,300	650	2,560	2,530	2,490	4,720	2,980	7
8	2,580	1,680	2,330	6,260	9,030	15,300	622	2,560	2,530	2,440	4,240	2,920	8
9	2,600	1,680	2,360	6,680	10,000	14,400	622	2,550	2,490	2,500	4,220	2,920	9
10	2,650	1,700	2,360	6,660	10,600	11,300	619	2,550	2,460	2,480	4,210	2,950	10
11	2,640	1,670	2,370	6,690	13,800	9,440	623	2,540	2,530	2,540	4,190	2,960	11
12	2,640	1,650	2,370	13,100	13,900	6,100	634	2,510	2,540	2,550	4,180	2,970	12
13	2,650	1,680	2,370	17,400	13,100 *	3,540	1,360	2,020	2,530	2,570	4,070	2,960	13
14	2,620	1,720	2,370	17,300	11,000	2,780	2,280	2,040	2,270	2,560	3,580	2,980	14
15	2,570	1,720	2,390	17,300 *	9,950 *	2,070	2,280	2,040	2,030	2,570	3,600	2,950	15
16	2,570	1,710	2,390	18,100 *	9,960	1,900	2,570	2,010	1,990	2,800	3,610	2,940	16
17	2,570	1,690	2,410	17,200	9,850	1,720	2,560	2,050	1,990	3,020	3,590	2,990 *	17
18	2,580	1,660	2,380	16,200 *	9,840	1,490	3,140	2,590	1,980	3,010	3,550	3,010	18
19	2,620	1,660	2,390	17,100	9,950	1,500	3,590	3,090	2,020	3,020	3,540	2,990	19
20	2,650	1,670	2,400	17,200	7,590	1,900	3,570	3,120	2,030	3,050	3,420	2,980	20
21	2,630	1,670	2,410	14,100	5,560 *	5,060	3,540	3,470 *	2,010	3,040	2,890	2,940	21
22	2,570	1,690	2,410	8,960	5,270	9,500	3,510	6,010	2,180	3,010	2,580	2,930	22
23	2,560	1,670	2,380	6,530	4,180	7,450 *	3,550	6,230	2,480	3,040	2,550	2,920	23
24	2,590	1,670	2,370	5,900	3,180	4,130	3,560	5,090	2,460	3,050	2,480	2,960	24
25	2,600	1,680	2,370	5,930	2,250	3,440	3,560	4,210	2,510	3,050	2,450	2,990	25
26	2,620	1,710	2,400	5,900	3,030	2,680	3,550	3,530	2,520	3,040	2,440	3,000	26
27	2,650	1,700	2,410	5,780	12,000	1,920	3,540	3,500	2,500	3,030	2,490	2,720	27
28	2,620	1,710	2,420	5,720	16,300 *	1,820	3,540	3,480	2,490	3,030	2,480	2,470	28
29	2,580	1,720	2,410	6,030	1,590	2,550	3,500 *	2,520	2,520	3,030	2,520	2,440	29
30	2,620	1,710	2,390	6,840	1,410	2,560	3,520	2,530	2,530	3,040	2,490	2,440	30
31	2,650	1,710	2,360	7,250	1,270	1,270	3,290	3,290	3,040	2,520	2,520	2,440	31
MEAN	2,606	1,710	2,251	9,024	8,864	7,178	2,168	3,076	2,372	2,775	3,548	2,866	MEAN
MAX.	2,650	2,190	2,420	18,100	16,300	16,300	3,590	6,230	2,610	3,050	4,730	3,010	MAX.
MIN.	2,560	1,640	1,710	2,400	2,250	1,270	619	2,010	1,980	2,440	2,480	2,430	MIN.
ACT.	160,300	101,700	138,400	554,900	492,300	441,300	129,000	189,200	141,200	170,600	218,200	170,600	ACT. AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
4,016	18,900	8.95	1 16 1815	619		4 10	2,908,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 27 23	121 38 10	SE 33 19N 3E	21,600		1-28-1970	DEC 1967-DATE	DEC 1967-DATE	1967		0.47	USCGS

Station located in river outlet channel, 5.7 miles southwest of Oroville. Station measures flows released to Feather River through Thermalito Afterbay.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05165	FEATHER RIVER NEAR GRIDLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	3,080	2,720	2,200	2,890	8,760	17,100	1,900	2,990	3,040	2,680	4,680	2,800
2	3,060	2,450	2,190	2,890	8,780	16,900	1,890	2,980	2,880	2,680	5,390	2,770
3	3,060	2,250 *	2,220	3,110	8,720	16,300	1,840	2,990	2,820	2,710	5,200	3,170
4	3,060	2,200	2,220	3,970	8,750	15,800	1,740	3,000	2,820	2,690	4,750	3,280
5	3,060 *	2,140	2,210	4,200	9,060	15,500	1,660	2,960	2,840	2,680	4,770	3,330
6	3,090	2,140	2,320	4,620	9,930 *	15,500	1,490	2,960	2,840	2,680	4,790	3,350
7	3,080	2,180	2,450	6,080	10,100	15,800	1,350	2,960	2,830	2,660	4,770	3,330
8	3,040	2,170	2,860	7,290	10,000	15,800	1,320	2,970	2,850	2,590	4,350	3,270
9	3,050	2,170	2,960	7,960	10,900	15,200 *	1,310	2,960	2,820	2,640	4,300	3,270
10	3,120	2,200	2,960	7,840	11,500	12,100	1,310	2,940	2,770	2,640	4,300	3,320
11	3,110	2,210	2,980	7,810	14,700	10,500	1,310	2,940	2,820	2,700 *	4,300	3,350
12	3,100	2,150	2,970	11,700	15,000	7,010	1,320	2,900	2,850	2,750	4,300	3,380
13	3,110	2,190	2,960	18,500	14,300	4,510	1,330	2,530	2,820	2,800	4,230	3,380
14	3,100	2,260	2,960	18,000	12,300	3,540	1,800	2,500	2,620 *	2,790	3,750	3,400
15	3,050	2,270	2,940	17,900 *	10,900	2,920	2,630	2,490	2,370	2,820	3,760	3,380
16	3,030	2,260	2,990	26,800	10,800	2,690	3,010	2,470	2,310	3,040	3,800	3,370
17	3,030	2,210	3,070	45,300	10,700	2,510	3,000	2,480	2,280	3,380	3,780	3,430
18	3,040	2,180	3,060	45,200	10,600	2,270	3,400	2,910	2,280	3,420	3,750	3,450
19	3,060	2,180	3,100 *	42,800	10,700	2,250	3,950	3,450	2,300	3,440	3,740	3,430
20	3,120	2,170	3,090	28,100	8,880	2,470	3,950	3,440	2,310	3,460	3,680	3,440
21	3,100	2,170	3,070	17,300	6,340	4,720	3,920	3,730	2,320	3,470	3,200 *	3,390 *
22	3,040	2,170	3,050	11,400	6,050	9,500	3,900	6,200	2,430	3,430	2,870	3,400
23	3,000	2,170	3,010	8,120	4,990	8,110	3,940	6,800	2,750	3,450	2,870	3,370
24	3,030	2,150	2,970	7,200	4,070	4,860	3,910	5,560	2,720	3,480	2,780	3,380
25	3,070	2,180	2,940	7,100	3,110	3,980	3,920	4,650 *	2,760	3,530	2,740	3,380
26	3,090	2,200	2,970	6,970	3,360	3,420	3,960 *	3,880	2,760	3,500	2,740	3,420
27	3,160	2,180	3,000	6,790	11,600	2,610	3,940	3,800	2,740	3,500	2,770	3,160
28	3,140	2,190	3,000	6,610	17,400	2,460	3,920	3,810	2,730	3,500	2,800	2,900
29	3,080	2,200	2,950	6,840		2,280	3,130	3,810	2,740	3,500	2,850	2,850
30	3,090	2,190	2,950	7,680		2,120	2,980	3,830	2,760	3,500	2,820	2,820
31	3,150		2,890	8,020		1,960		3,660		3,510	2,850	
MEAN	3,077	2,216	2,822	13,128	9,725	7,828	2,634	3,469	2,672	3,084	3,796	3,265
MAX.	3,160	2,720	3,100	45,300	17,400	17,100	3,960	6,800	3,040	3,530	5,390	3,450
MIN.	3,000	2,140	2,190	2,890	3,110	1,960	1,310	2,470	2,280	2,590	2,740	2,770
AC. FT.	189223	131901	173573	807252	540099	481368	156754	213322	159035	189659	233415	194321

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
4792.9	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	3469922
	47000	38.69	01	19	0015	1280.0	24.94	04	12	0445	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 22 01	121 38 43	SW 33 18N 3E		102.25	12-23-1955	JAN 1944-DATE	MAR 29-MAY 37# OCT 37-APR 39 NOV 39-JUL 40 OCT 40-JUL 43 OCT 43-DATE	1929	1929	0.00 -2.91	USED USCGS

Station located near highway bridge 2.7 miles east of Gridley. Subsequent to 1962, tabulations include all left bank overflow. Records of discharge published prior to 1963 listed only that water in the main channel. Drainage area is 3,676 square miles.

- Flood season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05735	NORTH HONCUT CREEK NEAR BANGOR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9	2.4	8.8	28	219	265	57	4.7	3.4	1.2	0.0	0.7	1
2	0.6	2.5	8.5	25	105	204	38	4.9	3.4	1.2	0.0	0.5	2
3	0.4	2.5	8.3	23	94	194	31	4.7	2.9	1.2	0.0	0.5	3
4	0.3	4.3	9.4	22	252	213	26	4.1*	2.3	1.2	0.0	0.7	4
5	1.6	25	9.9	20	193	146	23	4.2	1.9	0.6	0.0	0.9	5
6	1.6	7.9	12	18	307	593	21	4.4	1.8	0.3	0.0	1.2	6
7	1.5	7.3	21	18	470	284	20	3.9	1.6	0.2	0.0	1.2	7
8	1.7	19	24	36	212	235	17	3.6	1.5	0.2	0.0	0.9	8
9	2.1	11	20	899	265	155	16	3.3	1.6	0.2	0.0	0.5	9
10	3.0	13	18	530	1,350	121	15	3.0	1.6	0.2	0.4	0.3	10
11	4.2	35	16	2,240	544	109	14	2.4	1.8	0.1	0.5	0.7	11
12	5.1	28	15	1,650	221	83	13	2.1	2.0	0.1	0.5	1.3	12
13	3.5	14	13	494	195	68	13	3.7	2.1	0.0	0.5	1.3	13
14	2.6	219	12	197	636	57	13	4.3	2.5*	0.0	0.5	1.1	14
15	2.3	198	12	321	309	48	12	4.6	2.5	0.0	0.3	1.0	15
16	2.9	336*	13	2,380	178	43	12	4.6	2.5	0.0	0.3	0.7	16
17	3.0	101	758	660	132	40	11	4.5	2.5	0.0	0.2	0.5	17
18	2.8	44	458	1,320	100	36	11	4.3	2.3	0.3	0.3	0.5	18
19	3.1	52	732	406	78	34	10	4.5	2.0	0.5	0.3	0.7*	19
20	3.2	40	172*	252	62	46	9.4	4.4	1.6	0.5	0.9	1.5	20
21	3.2	28	104	280	51	50	8.5	4.4	1.1	0.6	0.5*	1.7	21
22	3.2	23	96	219	43	71	8.0	4.3	1.0	0.8	0.3	1.7	22
23	3.0	19	73	149	36	47	7.6	3.9	1.1	0.7	0.2	2.2	23
24	3.0	16	85	130	315	38	7.2	4.4*	1.6	0.5	0.1	2.1	24
25	2.8	14	65	283	238	34	6.5	5.0	1.6	0.4	0.3	2.3	25
26	2.7	13	48	226	255	32	6.2	4.5	1.2	0.3	0.5	1.6	26
27	2.6	12	41	153	2,180	31	6.9	3.7	1.0	0.2	0.8	1.7	27
28	2.3	11	65	127	873	28	6.8	3.2	0.9	0.3	1.1	1.3	28
29	2.2	10	45	153	25	25	6.3	3.1	1.3	0.2	0.8	0.7	29
30	2.1	9.5	36	773	24	24	5.3	2.8	1.2	0.1	0.7	1.0	30
31	2.2		32	254	147	147		2.9		0.1	0.8		31
AN	2.4	43.9	97.8	460	354	112	15.1	3.9	1.9	0.4	0.3	1.1	MEAN
MX	5.1	336	758	2,380	2,180	593	57.0	5.0	3.4	1.2	1.1	2.3	MAX.
MIN.	0.3	2.4	8.3	18.0	36.0	24.0	5.3	2.1	0.9	0.0	0.0	0.3	MIN.
AC.FT.	150	2613	6012	28336	19662	6944	896	243	111	24	21	65	AC.FT.

WATER YEAR SUMMARY

E - ESTIMATED
 N - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - E AND *

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
89.9	8740	12.03	02	27	2045	0.0	3.05	07	13	2300	65077

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 20 32	121 29 25	SW 11 17N 4E	10,700 E	11.57	12-26-1964	OCT 59-SEPT 62 JUL 63-DATE	OCT 59-SEPT 62 JUL 63-DATE	1959	1962	0.00	LOCAL
								1963		0.00	LOCAL

Station located 0.4 mile north of Honcut-Wyandotte Road and Bangor Highway junction, 5.7 miles southwest of Bangor. Tributary to Feather River. Flow partly regulated by Lake Wyandotte. Drainage area is 47.1 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A61265	SQUIRREL CREEK NEAR PENN VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	13	7.6	12	16	52	103	51	17	20	14	9.7	13	
2	13	7.6	12	16	38	87	37	19	19	13	9.6	12	
3	12	10	14	15	85	201	31	19	18	12	9.7	12	
4	13	46	25	14	353 *	243	28	21	17	12	9.9	12	
5	13	19	16	14	88	94	28	22	15	11	9.9	13	
6	15	15	17	13	123	247 *	27	20	15	11	9.6	13	
7	15	27	18	13	152	110	26	17	15	11	9.5	8.7	
8	16	24	18	23	72	128	24	18	16	11	9.9	5.5	
9	17	17	18	235	68	71	23	18	15	11	11	11	
10	21	75	14	152	475	110	23	19	14	11	12	7.5	
11	29	151	17	721	288	108	23	19	14	10	11	9.4	
12	14	40	13	868	99	61	20	17	14	9.8	9.8	11	
13	11	49	13	185 *	73	49	20	16	16	9.5	8.8	11	
14	9.2	227	13	74	295	41	21	16	15 *	11	8.7	11	
15	10	83	14	159	118	39	22	16	16	12	8.4	12	
16	11	227 *	44	950	66	39	21	14	16	12	8.0	13	
17	8.9	46	452	251	53	39	19	13	16	12	8.2	12	
18	8.1	30	212	409 *	45	36	18	13	16	13	8.9	13	
19	7.6	46	227	126	39	42	19	11	14	14	8.9	13	
20	8.7	27	68 *	66	35	97	18	12	9.7	13	8.3	18	
21	8.1	22	41	61	31	94	16	15	9.5	14	8.3*	12	
22	7.9	19	46	45	28	76	17	17	12	14	9.2	10	
23	7.8	18	34	37	27	48	20	18	14	14	9.7	13	
24	7.5	16	56	32	32	40	20	15 *	15	13	11	14	
25	6.8	15	33	96	32	37	19	19	14	13	12	13	
26	7.3	14	26	60	105	35	19	18	14	12	13	12	
27	7.5	14	26	39	436	33	20	16	12	11	14	12	
28	7.3	14	30	32	190	27	18	15	11	10	14	11	
29	7.4	13	22	59		25	19	15	11	10	14	10	
30	7.2	12	18	215		44	18	13	13	9.7	14	9.6	
31	7.2		17	87		131		14		8.9	14		
MEAN	11.2	44.4	51.2	164	124	81.8	22.8	16.5	14.5	11.7	10.4	11.6	
MAX.	29.0	227	452	950	475	247	51.0	22.0	20.0	14.0	14.0	18.0	
MIN.	6.8	7.6	12.0	13.0	27.0	25.0	16.0	11.0	9.5	8.9	8.0	5.5	
AC. FT.	689	2640	3146	10082	6938	5028	1359	1016	865	720	641	690	

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- == E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
46.7	2450	12.93	01	12	0215	0.4	5.59	09	08	0745	33813

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 12 38	121 12 06	SW 28 16N 7E				FEB 1972-DATE	FEB 1972-DATE	1972		0.00	LOCAL

Station located 0.4 mile north of Highway 20 on Bridgeport Road, 1.5 miles northwest of Penn Valley. Station established and operated in cooperation with Nevada Irrigation District.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05120	FEATHER RIVER BELOW SHANGHAI BEND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5,660	5,410	5,020	5,540	14,000	28,500	6,280	4,480	4,200	3,490	5,610	4,700	1
2	5,640	4,960	5,020	5,530	13,400	24,700	5,770	4,500	3,770	3,470	6,490	4,660	2
3	5,670	4,740	5,010	5,510	13,100	23,100	5,590	4,560	3,650	3,500	6,980	4,860	3
4	5,630	4,710	5,020	6,070	14,700	23,700	5,390	4,610	3,610	3,550	6,440	5,120	4
5	5,640	4,640	5,060	6,610	14,800	22,400	5,270	4,530	3,560	3,500	6,350	5,200	5
6	5,670	4,600	5,240	6,740	15,100	22,000	5,130	4,450	3,530	3,550	6,350	5,220	6
7	5,680	4,700	5,240	7,600	17,300	23,400	4,920	4,420	3,460	3,630	6,360	5,240	7
8	5,650	4,810	5,470	8,980	17,100	22,500	4,830	3,750	3,410	3,590	6,160	5,250	8
9	5,630	4,830	5,680	11,200	16,200	21,600	4,660	3,620	3,400	3,620	5,930	5,200	9
10	5,800	5,000	5,710	14,900	20,500	19,000	3,570	3,570	3,350	3,610	5,960	5,200	10
11	5,910	5,380	5,690	14,800	25,600	17,100	3,500	3,590	3,350	3,550	5,900	5,290	11
12	5,900	5,330	5,610	26,900	24,000	13,500	3,450	3,600	3,360	3,640	5,860	5,350	12
13	5,840	5,140	5,300	49,000	21,900	10,500	3,410	3,440	3,310	3,680	5,890	5,450	13
14	5,810	5,930	5,250	38,000	20,400	8,580	3,460	3,250	3,320	3,650	5,580	5,470	14
15	5,790	6,660	5,270	25,000	20,300	6,230	4,180	3,270	3,010	3,680	5,380	5,470	15
16	5,750	6,970	5,330	30,000	17,800	6,560	4,810	3,210	2,940	3,760	5,380	5,410	16
17	5,760	6,610	6,680	60,000	16,600	7,040	4,840	3,150	2,950	4,750	5,020	5,440	17
18	5,690	5,860	7,930	55,000	15,900	6,760	4,810	3,220	2,930	4,920	4,900	5,470	18
19	5,710	5,530	9,120	62,100	15,600	6,570	5,580	4,020	2,880	5,000	4,860	5,500	19
20	5,730	5,410	8,710	54,100	15,100	6,820	5,730	4,140	2,910	5,030	5,270	5,560	20
21	5,700	5,230	8,170	32,700	11,500	7,610	5,710	4,200	2,910	5,050	5,060	5,530	21
22	5,620	5,120	7,520	21,300	10,800	12,800	5,600	5,420	2,910	5,060	4,630	5,580	22
23	5,560	5,070	6,650	15,200	9,860	13,900	5,580	7,770	3,270	5,040	4,570	5,620	23
24	5,520	5,050	6,400	13,000	8,890	10,300	5,520	6,900	3,440	5,040	4,510	5,540	24
25	5,610	5,060	6,250	12,600	8,840	8,570	5,500	5,990	3,410	5,070	4,510	5,560	25
26	5,620	5,030	6,130	12,600	7,890	8,160	5,500	5,050	3,410	5,070	4,500	5,590	26
27	5,670	5,030	6,080	12,200	13,700	6,950	5,500	4,730	3,430	5,090	4,510	5,490	27
28	5,670	5,020	6,040	11,500	29,700	6,150	5,440	4,760	3,400	4,820	4,590	5,180	28
29	5,530	5,030	5,980	11,200		5,970	5,080	4,640	3,420	4,180	4,620	5,020	29
30	5,500	5,030	5,840	12,000		5,790	4,500	4,640	3,480	4,920	4,600	4,980	30
31	5,580		5,660	15,000		6,250	4,610	4,610		5,040	4,650		31
AN	5,681	5,263	6,067	21,383	16,092	13,322	4,970	4,390	3,332	4,243	5,400	5,305	MEAN
MX	5,910	6,970	9,120	62,100	29,700	28,500	6,280	7,770	4,200	5,090	6,980	5,620	MAX.
MIN	5,500	4,600	5,010	5,510	7,890	5,790	3,410	3,150	2,880	3,470	4,500	4,660	MIN.
FT.	349368	313170	373051	1314803	893712	819193	295755	269930	198307	260925	332073	315669	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND #

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
7923.0	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
	62100	55.26	01 19 0000	2850.0	34.06	06 19 1830	5735957

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 04 44	121 36 08	NE 11 14N 3E		76.8	12-24-1955	JUN 44-OCT 55 # JAN 46-DATE	NOV 26-MAY 35 # OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43 # OCT 43-DATE	1926	1926	0.00 -3.01	USED USCGS

Station located approximately 4 miles south of Yuba City. Flow partly regulated by reservoirs and powerplants. Drainage area is 5,337 square miles.

- Irrigation season only.
- Flood season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02903	SACRAMENTO WEIR SPILL TO YOLO BYPASS (a)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				0.0	0.0	152						
2				0.0	0.0	170						
3				0.0	0.0	162						
4				0.0	0.0	164						
5				0.0	0.0	152						
6				0.0	0.0	129						
7				0.0	0.0	124						
8				0.0	0.0	132						
9				0.0	24	123						
10				0.0	150	85.4						
11	N	N	N	0.0	216	36.5	N	N	N	N	N	N
12				0.0	222	0.0						
13	O	O	O	253	230	0.0	O	O	O	O	O	O
14				356	246	0.0						
15				355	241	0.0						
16	F	F	F	302	181	0.0	F	F	F	F	F	F
17				312	139	0.0						
18	L	L	L	367	116	0.0	L	L	L	L	L	L
19				1,070	89.3	0.0						
20	O	O	O	372	52.8	0.0	O	O	O	O	O	O
21	W	W	W	316	0.0	0.0	W	W	W	W	W	W
22				242	0.0	0.0						
23				185	0.0	0.0						
24				142	0.0	0.0						
25				124	0.0	0.0						
26				116	0.0	0.0						
27				66.7	0.0	0.0						
28				0.0	22.3	0.0						
29				0.0		0.0						
30				0.0		0.0						
31				0.0		0.0						
MEAN				148	68.9	46.1						
MAX.				1,070	246	170						
MIN.				0.0	0.0	0.0						
AC. FT.				9,084	3,827	2,836						

WATER YEAR SUMMARY

(a) Leakage through needles during 1973 water year
 E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM				TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
21.7	1,272		1	19	1145	15,750

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
			118,000 E	32.8	3-26-1928	1926-DATE					

See Sacramento River at Sacramento Weir for stage record and location. Elevation of fixed crest of weir is 24.5* feet, USED Datum; elevation of movable crest (top of needles) is 30.5* feet, USED Datum. There are 48 gates, each 38 feet in length.

*From 1964 surveys. Previously listed as 25.0 and 31.0, respectively.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A00047	DRY CREEK AT ROSEVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
39	20	40	53	151	285	86	26	24	9.6	7.6	19	1	
42	22	40	53	132	253	71	26	22	9.4	7.8	19	2	
43	29	40	53	184	301	65	27	19	9.4	8.7	19	3	
36	145	43	52	541	446	61	30	18	9.2	8.5	19	4	
34	45	41	50	229	227	58	35	17	8.7	8.0	20	5	
29	29	60	47	257	362	56	31	17	8.5	8.6	21	6	
25	33	80	47	269	279	55	28	15	8.6	9.6	21	7	
23	36	58	63	184	521	51	26	15	9.2	9.9	21	8	
27	30	46	361	167	252	52	24	14	9.1	10	17	9	
52	57	43	319	578	198	57	22	14	8.3	12	16	10	
154	173	41	421	941	223	51	21	14	8.2	12	17	11	
90	82	41	1,750	559	155	51	22	14	7.8	12	17	12	
48	58	40	658	342	133	59	21	16	7.8	12	18	13	
41	119	39	309	454	119	63	21	15	8.1	13	19	14	
41	88	38	251	355	108	57	18	15	8.1	12	20	15	
44	306	47	1,290	217	103	56	16	15	8.3	12	21	16	
44	99	117	608	176	100	56	17	17	8.7	14	23	17	
38	61	108	928	154	97	63	19	18	9.3	13	21	18	
33	53	246	509	135	103	53	17	14	9.2	12	19	19	
33	48	117	296	121	246	47	18	13	10	12	24	20	
32	42	82	360	112	230	43	18	12	12	11	29	21	
31	41	77	235	102	209	38	19	11	11	12	29	22	
31	40	70	186	95	125	36	20	12	9.7	13	35	23	
30	39	92	165	95	105	34	21	15	9.2	14	35	24	
27	38	80	344	106	97	31	24	14	9.5	16	36	25	
24	38	66	274	200	91	31	24	13	8.8	17	33	26	
24	39	64	175	706	93	31	24	11	7.8	17	27	27	
22	38	80	158	782	86	29	21	9.0	7.8	18	23	28	
22	40	65	157	76	76	30	18	9.1	7.6	16	19	29	
21	40	57	215	81	81	28	16	9.5	7.6	15	18	30	
22		54	172	129	129	19	19		7.8*	16		31	
MEAN	38.8	64.3	68.1	340	298	188	50.0	22.2	14.7	8.8	12.2	22.4	MEAN
MAX.	154	306	246	1,750	941	521	86.0	35.0	24.0	12.0	18.0	36.0	MAX.
MIN.	21.0	20.0	38.0	47.0	95.0	76.0	28.0	16.0	9.0	7.6	7.6	16.0	MIN.
A.T.	2384	3824	4189	20943	16550	11570	2973	1367	876	544	753	1333	AC. FT.

WATER YEAR SUMMARY

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
93.0	2040	10.60	01	16	1415	7.6	2.81	07	28	1930	67306

E - ESTIMATED
 N - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - E AND *

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 44 47	121 16 57	SE 2 10N 6E	2,370	15.90	1-26-1969	APR 1966-DATE	APR 1966-DATE	1966		0.00	LOCAL

Station located 1,400 feet above Douglas Street Bridge. Prior to November 3, 1969, station located 100 feet above Douglas Street Bridge. Tributary to Sacramento River via Linda Creek and Back Borrow Pit of Reclamation District 1000.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02100	SACRAMENTO RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	17,000	15,100	24,500	28,100	62,200	72,700	26,600	15,300	19,600	14,000	15,600	17,000
2	16,800	14,800	24,100	28,400	61,200	73,300	26,600	15,000	19,000	14,100	16,300	16,600
3	16,500	14,500	23,600	28,000	59,200	72,800	25,800	14,400	18,600	14,200	16,900	16,500
4	16,100	14,800	22,800	27,000	58,400	72,900	25,000	14,200	18,000	14,200	16,800	16,200
5	15,800	14,700	22,300	26,800	58,400	72,100	24,100	13,900	17,300	14,200	16,500	16,800
6	15,300	15,000	22,200	27,600	58,700	71,100	23,600	13,900	16,700	14,600	16,400	16,700
7	14,900	15,600	21,600	28,100	62,000	70,800	23,400	13,900	16,000	14,700	16,600	16,600
8	14,900	15,600	21,200	29,100	65,300	71,400	22,700	13,600	15,400	14,800	16,300	16,700
9	14,900	15,000	21,000	31,600	67,400	70,700	22,500	12,900	15,200	14,800	16,100	16,600
10	15,000	15,700	20,900	37,000	72,300	69,400	21,700	12,700	14,900	14,900	15,800	16,500
11	15,900	16,800	20,500	45,300	75,600	67,800	20,200	12,600	14,700	15,000	15,800	16,600
12	16,100	18,300	20,600	56,800	75,700	66,100	20,000	12,700	14,400	14,900	16,000	16,300
13	16,400	21,100	20,200	82,800	77,200	63,300	20,300	13,000	13,800	14,900	16,100	17,200
14	16,600	22,900	20,000	90,200	78,300	59,300	20,400	13,500	13,800	14,800	15,700	17,700
15	16,600	26,000	19,500	89,300	77,900	54,200	20,400	14,100	13,600	15,000	15,300	17,900
16	17,000	33,700	19,300	82,800	73,500	46,100	21,100	14,300	13,700	15,200	15,400	18,000
17	17,300	36,500	19,900	83,900	71,400	40,700	20,900	14,400	13,800	15,400	15,500	18,100
18	17,800	37,000	23,700	89,000	70,400	37,200	20,700	15,100	13,800	16,300	15,500	18,200
19	17,700	34,200	33,600	92,700	69,300	34,400	20,400	16,400	13,600	16,100	15,600	18,600
20	17,300	31,900	40,100	88,800	68,100	32,800	20,600	17,900	13,500	15,900	15,900	18,500
21	16,900	30,700	42,200	83,300	66,100	33,100	20,000	17,900	13,300	15,800	16,000	18,500
22	16,200	29,200	42,200	77,300	63,000	38,300	19,400	18,200	13,300	15,600	15,900	18,600
23	15,800	27,800	39,700	73,600	59,400	43,800	18,600	20,000	13,400	15,800	15,600	18,600
24	15,500	26,700	38,600	71,500	54,900	45,000	17,800	22,100	13,600	15,900	16,000	18,500
25	15,300	26,200	37,600	70,800	51,500	41,100	17,200	21,800	14,100	15,900	16,200	18,700
26	15,300	25,700	35,800	70,600	50,600	36,900	16,500	21,600	14,300	15,600	16,200	18,600
27	15,500	25,600	33,600	68,300	53,400	33,600	15,800	21,800	14,200	15,800	16,600	18,200
28	15,600	25,200	31,400	66,100	65,800	30,300	16,000	21,500	14,200	15,800	16,600	17,700
29	15,700	25,100	30,000	64,100		27,600	16,200	20,700	14,300	15,400	16,600	17,100
30	15,500	24,700	29,100	62,600		26,200	15,600	19,700	14,000	15,100	16,900	16,800
31	15,200		28,300	62,600		25,900		19,800		15,500	17,100	
MEAN	16,080	23,200	27,420	60,130	65,260	51,640	20,670	16,420	14,940	15,170	16,120	17,490
MAX.	17,800	37,000	42,200	92,700	78,300	73,300	26,600	22,100	19,600	16,300	17,100	18,700
MIN.	14,900	14,500	19,300	26,800	50,600	25,900	15,600	12,600	13,300	14,000	15,300	16,200
AC. FT.	988,600	1,381,000	1,686,000	3,697,000	3,624,000	3,175,000	1,230,000	1,009,000	888,800	932,600	991,400	1,041,000

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
28,520							20,650,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 35 20	121 30 15	NW 35 9N 4E	104,000	30.14	11-21-1950	1904-1905 JUN 21-NOV 21 MAY 24-DEC 42# MAY 43-DATE	JAN 04-JUL 05 20-DATE	1904	1956	0.12	USCGS
								1956		0.00	USCGS
								1956		2.98	USED
									1965	-0.23	USCGS
								1965		0.00	USCGS

Station located 1,000 feet above I Street Bridge, 0.5 mile below the American River. Below approximately 30,000 cfs, the stage-discharge relationship is affected by tidal influence. Maximum discharge listed at site and datum then in use. Records furnished by U. S. Geological Survey. Drainage area is 23,530 square miles.

- Irrigation season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A81810	MIDDLE CREEK NEAR UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.9	6.6	42	181	352	120	21	1.4	0.3	0.0	0.0	1
2	0.3	1.0	6.3	39	143	280	110	20	1.1	0.2	0.0	0.0	2
3	0.3	1.1	6.0	36	129	292	100	20	1.0	0.6	0.0	0.0	3
4	0.4	1.2	8.0	32	408	272	90	20	1.0	0.2	0.0	0.0	4
5	0.4	1.3	8.9	28	496	240	84	19	0.7	0.0	0.0	0.0	5
6	0.4	1.6	12	26	361	312	75	18	0.5	0.0	0.0	0.0	6
7	0.4	1.9	14	25	420	280	68	17	0.5	0.0	0.0	0.0	7
8	0.4	2.0	11	30	351	252	63	16	0.4	0.0	0.0	0.0	8
9	0.5	2.3	8.7	498	334	219	58	15	0.4	0.0	0.0	0.0	9
10	0.6*	2.9	8.2	446	540	210	63	14	0.4	0.0	0.0	0.0	10
11	0.7	3.2	7.6	1,400	496	180	61	15	0.4	0.0	0.0	0.0	11
12	0.7	3.2	7.1	1,560	442	150	51	14	0.3	0.0	0.0	0.0	12
13	0.7	7.0	6.8	788	365	130	50	12	0.4	0.0	0.0	0.0	13
14	0.6	7.4	6.8	403	300	120	47	11	0.2	0.0	0.0	0.0	14
15	0.7	50	7.0	345	264	110	42	10	0.5	0.0	0.0	0.0	15
16	0.7	109	136	1,900	240	100	39	8.8	0.4	0.0	0.0	0.0	16
17	0.7	46	616	1,050	201	92	40	8.0	0.3	0.0	0.0	0.0	17
18	0.7	29	423	1,480	180	110	36	7.1	0.5	0.0	0.0	0.0	18
19	0.6	45	342	757	162	180	34	6.0	0.3	0.0	0.0	0.0	19
20	0.6	40	147	442	140	300	33	5.2	0.4	0.0	0.0	0.0	20
21	0.7	29	108	377	130	332	31	4.9	0.4	0.0	0.0	0.0	21
22	0.7	22	219	272	115	280	30	4.5	0.3	0.0	0.0	0.0	22
23	0.7	17	201	214	110	252	29	4.5	0.1	0.0	0.0	0.0	23
24	0.7	13	193	189	300	219	28	5.3	0.1	0.0	0.0	0.0	24
25	0.7	11	139	220	639	189	27	8.2	0.3	0.0	0.0	0.0	25
26	0.7	9.8	108	154	540	171	26	7.1	0.1	0.0	0.0	0.0	26
27	0.7	8.5	94	133	580	150	25	5.6	0.1	0.0	0.0	0.0	27
28	0.7	7.8*	77	123	450	130	24	5.0	0.0	0.0	0.0	0.0	28
29	0.7	7.2	63	193		115	24	3.5	0.0	0.0	0.0	0.0	29
30	0.7	6.8	55	250		130	22	2.4	0.2	0.0	0.0	0.0	30
31	0.8*		48	245		130		1.6		0.0	0.0	0.0	31
MEAN	0.6	18.5	99.8	441	322	202	51.0	10.6	0.4	0.0	0.0	0.0	MEAN
MAX.	0.8	109	616	1,900	639	352	120	21.0	1.4	0.6	0.0	0.0	MAX.
MIN.	0.1	0.9	6.0	25.0	110	92.0	22.0	1.6	0.0	0.0	0.0	0.0	MIN.
TOT. FT.	36	1100	6137	27168	17885	12454	3035	654	25	3			TOT. AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- F AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
94.6	3240	11.32	01	16	0800	0.0	5.22	10	01	1330	68497

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
39 10 59	122 54 39	NE1 15N 10W				OCT 48-SEP 53 MAR 59-SEP 59 AUG 62-DATE	OCT 48-DATE	1959	1962	1353.6 0.00	USCGS LOCAL

Station located at Ranchera Road Bridge, 1.3 mi. N of Upper Lake. Tributary to Clear Lake. Flow affected by upstream diversion. Drainage area is 48.5 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A81845	SCOTTS CREEK AT EICKHOFF ROAD NEAR LAKEPORT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	0.0	0.0	0.7	40	231	372	96	15	0.9	0.0	0.0	0.0	
2	0.0	0.0	0.6	38	210	282	85	14	0.8	0.0	0.0	0.0	
3	0.0	0.0	0.7	36	206	300	75	14	0.7	0.0	0.0	0.0	
4	0.0	0.0	1.6	31	841	292	67	14	0.7	0.0	0.0	0.0	
5	0.0	0.0	1.9	27	796	244	63	12	0.6	0.0	0.0	0.0	
6	0.0	0.0	8.6	24	544	334	59	12	0.5	0.0	0.0	0.0	
7	0.0	0.0	11	22	864	291	55	11	0.4	0.0	0.0	0.0	
8	0.0	0.0	7.3	30	622	266	52	11	0.2	0.0	0.0	0.0	
9	0.0	0.0	4.9	501	513	221	49	10	0.1	0.0	0.0	0.0	
10	0.0	0.0	3.8	450	901	210	46	9.9	0.0	0.0	0.0	0.0	
11	0.0*	11	3.2	2,030	760	201	44	9.4	0.0	0.0	0.0	0.0	
12	0.0	0.1	2.8	2,090 *	585	169	41	7.9	0.0	0.0	0.0	0.0	
13	0.0	184	2.3	842	520	149	40	7.4	0.0	0.0	0.0	0.0	
14	0.0	238	1.7	406	499 *	131	41	7.8	0.0	0.0	0.0	0.0	
15	0.0	135	2.6	320 *	373 *	117	37	6.6	0.0	0.0	0.0	0.0	
16	0.0	196	198	2,100 *	301	105	36	2.6	0.0	0.0	0.0	0.0	
17	0.0	58	932	1,250	248	100	35	1.9	0.0	0.0	0.0	0.0	
18	0.0	27	393	1,700	213	92	32	1.8	0.0	0.0*	0.0	0.0	
19	0.0	20	345	774	180	130	31	1.7	0.0	0.0	0.0	0.0	
20	0.0	15	171	443 *	154	277	28	1.7	0.0	0.0	0.0	0.0	
21	0.0	9.2	115	451	135	349	25	1.6	0.0	0.0	0.0	0.0	
22	0.0	6.7	204	332	121	321	24	1.3	0.0	0.0	0.0	0.0	
23	0.0	5.0	165	271	110	262	24	1.1	0.0	0.0	0.0	0.0	
24	0.0	3.6	164	256	364	211	23	1.1	0.0	0.0	0.0	0.0	
25	0.0	2.5	119	269	655	176	21	1.6	0.0	0.0	0.0	0.0	
26	0.0	1.9	93	228	546	148	20	1.5	0.0	0.0	0.0	0.0	
27	0.0	1.6	84	206	595	126	19	1.5	0.0	0.0	0.0	0.0	
28	0.0	1.1*	72	186	512	111	18	1.4	0.0	0.0	0.0	0.0	
29	0.0	0.9	57	239		98	18	1.2	0.0	0.0	0.0	0.0	
30	0.0	0.7	50	293		115	18	1.1	0.0	0.0	0.0	0.0	
31	0.0		44	264		114		1.0		0.0	0.0	0.0	
MEAN	0.0	30.6	105	520	450	203	40.7	6.0	0.2	0.0	0.0	0.0	
MAX.	0.0	238	932	2,100	901	372	96.0	15.0	0.9	0.0	0.0	0.0	
MIN.	0.0	0.0	0.6	22.0	110	92.0	18.0	1.0	0.0	0.0	0.0	0.0	
AC. FT.		1819	6466	32031	24990	12524	2424	369	10				

WATER YEAR SUMMARY

E -- ESTIMATED
NR -- NO RECORD
* -- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= -- E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
111.4	3370	12.66	01	16	0945	0.0	0.63	10	01	0000	80632

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 05 44	122 57 38	NW3 14N 10W	11000		1/23/70	MAR 68-DATE	MAR 68-DATE	1968		0.00	LOCAL

Station located at Eickhoff Road Bridge, 1.2 mi. NW of Lakeport. Prior to October 1, 1968, gage at site 3.0 mi. upstream. Tributary to Clear Lake via Middle Creek. Flow affected by upstream diversion. Drainage area is 55.2 sq. mi.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A81940	CLOVER CREEK BYPASS NEAR UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
													1
													2
													3
													4
													5
													6
													7
													8
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													22
													23
													24
													25
													26
													27
													28
													29
													30
													31
MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

FLOWES OF LESS THAN 100 DAILY MEAN CFS NOT PUBLISHED

WATER YEAR SUMMARY

- E - ESTIMATED
- N - NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- * - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 10 33	122 54 00	SE6 15N 9W	4970	7.64	1/23/70	NOV 59-SEPT 66 OCT 68-DATE	NOV 59-DATE	1959		0.00	LOCAL

Station located 0.2 mi. above Lake Pillsbury Road bridge, 0.8 mi. N of Upper Lake. Tributary to Clear Lake via Middle Creek. Flows of less than 100 daily mean cfs not published.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A81250	BEAR CREEK NEAR RUMSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	0.9	1.4	4.3	11	117	306	86	33	13	3.3	0.8	0.8
2	0.8*	1.5	4.4	11	105	252	81	32	13	3.2	0.8	0.8
3	0.8	1.6	4.6	11	134	304	76	32	12	3.1	0.7	0.8
4	0.8	2.0	5.1	11	344	268	74	32	11	2.9	0.7	0.9
5	0.7	2.4	5.3	11	323	231	73	32	10	2.7	0.7	0.9
6	0.7	2.0	7.2	12	1,450	367	71 *	30	9.7	2.5	0.6	1.0
7	0.6	2.8	6.9	13	1,910	367	69	29	8.8	2.4	0.6	1.1
8	0.6	3.7	6.0	18	541	249	67	29	8.3	2.4	0.7	1.0
9	0.8	3.3	4.8	401	710	200	63	28	7.5	2.4	0.8	0.7
10	1.1	6.3	4.6	728	1,260	181	61	27	6.9	2.3	0.8	0.6
11	2.7	12	4.5	2,420	622	168	60	27	6.8	2.2	0.9	0.8*
12	3.8	7.8	4.5	1,900 *	446	150	59	26	6.4	2.1	0.8	1.0
13	3.2	31	4.4	398	745	141	58	24	6.2	2.1	0.8	1.1
14	4.2	648	4.6	168	441	129	56	23	6.5	2.1	0.9	1.1
15	6.6	300	4.6	107	355	123	55	22	6.5	1.9	0.8	1.1
16	8.4	343	6.7	2,260	278	119	53	21	6.3	1.9	0.6	1.2
17	5.3	61	448	443	240	114	51	20	6.1	1.9	0.5	1.3
18	3.7	26	190	2,330	210	110	49	20	6.2	1.9	0.6	1.2
19	2.9	16	255	456 *	186	129	48	18	5.9	1.7	0.6	1.2
20	2.5	10	74	330	171	380	47	17	5.5	1.7	0.6	1.4*
21	2.2	8.3	45 *	302	157	292	45	18	5.1	1.7	0.6	1.6
22	2.0	7.0	40	211	144	224	43	17	5.1	1.7	0.6	1.6
23	1.9	6.0	38	156	136	145	42	16	5.3	1.6	0.6	1.6
24	1.8	5.5	29	137	753	127	40	17	5.7	1.5	0.8	1.7
25	1.6	5.1	22	155	584	120	39	19	5.1	1.5	1.0	1.5
26	1.5	4.8	19	120	664	114	38	18	4.7	1.4	1.2	1.2
27	1.5	4.7	18	100	799	107	37	16	4.5	1.4	1.3	1.1
28	1.6	4.6	18	93	534	98	36	15	4.3	1.3	1.2	1.0
29	1.5	4.5	15	369		94	34	14	3.9	1.2	1.1	1.1
30	1.4	4.4	13	413		100	33	13	3.5	1.1	0.9	1.3
31	1.4		12	153		96		13		1.0	0.8	
MEAN	2.2	51.2	42.5	459	512	187	54.8	22.5	7.0	2.0	0.8	1.1
MAX.	8.4	648	448	2,420	1,910	380	86.0	33.0	13.0	3.3	1.3	1.7
MIN.	0.6	1.4	4.3	11.0	105	94.0	33.0	13.0	3.5	1.0	0.5	0.6
AC. FT.	138	3048	2615	28260	28481	11514	3261	1384	416	123	48	67

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 = - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
109.6	7100	10.63	01 18 0830	0.4	0.91	08 17 1700	79356

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 56 38	122 20 34	SW 30 13N 4W	9,270	11.93	1-5-1965	SEPT 1955-DATE	SEPT 1955-DATE	1955		0.00	LOCAL

Station located 7.3 miles northwest of Rumsey, 1.4 miles above mouth. Tributary to Cache Creek. Drainage area is 100 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A81200	CACHE CREEK ABOVE RUMSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
	2.2	1.5	56	181	1,360	5,830	650	601	540	591	440	310	1
	2.0*	1.8	52	168	1,280	5,290	611	622	560	601	451	310	2
	1.7	2.0	48	161	1,280	5,250	571	660	560	601	469	301	3
	1.6	2.2	47	149	2,010	5,020	540	678	560	591	469	301	4
	1.8	1.8	50	136	3,970	4,560	522	650	550	591	460	291	5
	1.7	1.8	64	124	6,320	4,930	500	622	540	611	451	271	6
	1.6	2.2	70	116	10,200	5,040	481	611	571	611	451	262	7
	1.6	2.2	67	122	6,080	4,600	466	601	571	601	431	251	8
	1.8	2.2	58	1,360	5,690	3,610	454	601	560	581	431	262	9
	2.4	13	51	1,960	8,330	2,470	451	601	560	571	419	262	10
	5.4	17	46	6,350	6,580	2,450	440	591	560	550	411	271	11
	11	42	46	8,840	6,070	2,330	440	581	581	540	411	262	12
	3.5	117	46	3,190	6,040	2,250	431	581	581	571	389	251	13
	2.2	1,300	44	1,610	5,260	2,120	419	581	560	581	389	241	14
	3.1	761	45	1,190	4,770	1,390	419	571	560	581	381	235	15
	4.4	1,200	81	10,400	4,450	1,220	411	560	560	571	389	230	16
	2.5	601	1,240	4,400	4,240	1,000	411	560	560	550	400	230	17
	1.5	340	1,120	12,300	3,900	930	400	560	560	531	411	230	18
	1.4	251	1,440	5,990	3,710	952	400	581	560	509	419	230	19
	1.4	189	746	4,400	3,140	1,090	400	591	550	509	389	220	20
	1.4	153	511	4,260	1,660	1,340	400	591	550	522	381	220	21
	1.5	122	494	3,650	2,060	1,700	400	540	540	522	350	210	22
	1.4	98	553	3,280	1,490	2,600	411	522	550	491	340	201	23
	1.3	88	466	3,060	3,880	1,910	419	531	560	481	340	165	24
	1.2	78	398	3,070	6,150	1,700	419	540	550	481	340	140	25
	1.3	72	340	2,850	6,620	1,640	451	522	550	481	335	131	26
	3.1	65	306	2,710	7,160	1,500	481	500	550	491	325	120	27
	1.2	59	288	2,600	6,510	1,320	509	481	560	491	320	114	28
	1.0	58	249	2,930		1,100	540	491	560	481	310	100	29
	1.2	53	221	2,110		862	581	509	581	460	301	94	30
	1.5		200	1,480		712		522		451	301		31
MEAN	2.3	189	304	3,069	4,650	2,539	467	572	558	541	390	223	MEAN
MAX.	11.0	1,300	1,440	12,300	10,200	5,830	650	678	581	611	469	310	MAX.
MIN.	1.0	1.5	44.0	116	1,280	712	400	481	540	451	301	94.0	MIN.
TOTAL	141	11295	18730	188721	258268	156131	27824	35213	33233	33312	24008	13321	TOTAL AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
1105.3	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
	25800	16.09	01 18 1245	1.0	0.30	10 29 0000	800196

E - ESTIMATED
 NR - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 * - E AND *

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 54 47	122 16 14	SE 2 12N 4W	43,400	19.59	1-24-1970	OCT 59-SEPT 63 JUN 65-DATE	OCT 59-DATE	1959		0.00	LOCAL

Station located 0.4 mile below State Highway 16 Bridge, 2.5 miles northwest of Rumsey. Flow regulated by Clear Lake. Drainage area is 955 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A95010	POPE CREEK NEAR POPE VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	0.0	0.0	7.1	23	184	345	70	20	7.5	2.1	0.0	0.0	
2	0.0*	0.0	7.1	22	150	263	64	19	7.5	2.0	0.0	0.0	
3	0.0	0.0	7.2	21 *	211	369	58	19	7.3	1.8	0.0	0.1	
4	0.0	21	9.3	20	447	327	55	18	6.8	1.7	0.0	0.1	
5	0.0	11	9.4	19	316	250	52	19	6.8	1.5	0.0	0.1	
6	0.0	5.8	68	19	637	449	56	18	6.3	1.3	0.0	0.1	
7	0.0	14	44	20	974	292	77	17	5.8	1.2	0.0	0.1	
8	0.0	21	28	71	419	256	47	17	5.8	1.1	0.0	0.1	
9	0.0	8.8	19	1,990	407	207	42	16	5.3	1.0	0.0	0.1	
10	0.0	90	16	584 *	1,060	185	41	15	5.0	0.9*	0.0	0.1	
11	0.0	175	15	1,910	648	173	38	15	5.3	0.8	0.0	0.1	
12	0.0	32	13	3,300	477	146	36	14	5.7	0.7	0.0	0.1	
13	0.0	169	12	659	576	129	35	14	5.6	0.6	0.0	0.1	
14	0.0	694	11	320	590	115	38	13	5.3	0.6	0.0	0.1	
15	18	288	11	391	396	106	35	13	5.0	0.5	0.0	0.2	
16	15	257	38	3,830	285	98	32	12	4.9	0.5	0.0	0.3	
17	7.5	79	776	1,010	231	97	31	12	4.7	0.4	0.0	0.2	
18	5.9	45	307	2,660	193	88	29	11	4.6	0.3	0.0	0.2	
19	2.9	37	264	649 *	166	120	28	11	4.3	0.3	0.0	0.2	
20	1.6	28	123	348	144	213	27	11	3.8	0.3	0.0	0.3	
21	0.9	22	82 *	428	128	237	26	11	3.4	0.3	0.0	0.4	
22	0.5	18	158	249	115	189 *	26	11	3.2	0.3	0.0	0.4	
23	0.3	15	100	189	105	133	25	9.9	3.8	0.3	0.0	0.6	
24	0.2	13	74	160	484	112	25	10	4.3	0.2	0.0	0.6	
25	0.1	11	56	160	461	101	24	11	3.8	0.2	0.0	0.5	
26	0.0	10	45	130	630	93	23	9.9	3.2	0.2	0.0	0.5	
27	0.0	9.3	41	110	868	85	22	9.6	2.9	0.1	0.0	0.4	
28	0.0	8.4	38	97	611	76	22	8.9	2.6	0.1	0.0	0.3	
29	0.0	7.9	33	284		70	21	8.1	2.4	0.0	0.0	0.2	
30	0.0	7.4	29	611		74	20	7.8	2.2	0.0	0.0	0.2	
31	0.0		26	265		99		7.5		0.0	0.0		
MEAN	1.7	69.9	79.6	662	425	177	37.5	13.2	4.8	0.7	0.0	0.2	
MAX.	18.0	694	776	3,830	1,060	449	77.0	20.0	7.5	2.1	0.0	0.6	
MIN.	0.0	0.0	7.1	19.0	105	70.0	20.0	7.5	2.2	0.0	0.0	0.0	
AC. FT.	105	4161	4893	40758	23629	10903	2231	811	288	42		13	

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL				
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
121.3	10800	16.15	01	16	0815	0.0	2.50	10	01	0000	87835

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 37 48	122 19 52	SW 17 9N 4W	18,000 E	19.79	1-31-1963	DEC 1960-DATE	DEC 1960-DATE	1960		0.00	LOCAL

Station located 5.2 miles east of Pope Valley. Tributary to Lake Berryessa. Drainage area is 78.3 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A09115	PUTAM CREEK, SOUTH FORK, NEAR DAVIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.9	3.9	4.2	5.0	155	98	782	67	25	9.1	8.1	6.3	1
2	2.1*	4.0	4.2	4.9	41	127	709	69	21	11	7.1	6.5	2
3	2.9	4.3	4.1	5.7	20	129	604	77	23	10	3.3	4.3	3
4	2.8	5.8	4.4	6.5	23	196	524	75	21	9.2	2.3	2.6	4
5	2.9	4.1	4.7	6.7	24	289	463	66	20	11	2.7	1.7	5
6	2.8	4.2	6.9	6.7	348	476	457	47	18	10	4.6	1.5	6
7	2.6	4.8	5.8	6.9	1,240	781	433	52	22	10	9.9	1.5	7
8	2.4	4.9	5.4	12	314	826	369	51	27	11	11	1.1	8
9	2.6	4.9	5.2	602	251	892	324	45	25	12	10	1.0	9
10	3.2	9.5	5.3	404	703	917	304	38	18	14	13	1.4	10
11	6.0	5.7	5.5	236	506	951	273	36	18	12	11	1.5	11
12	4.6	4.3	5.8	921	253	968	249	33	16	9.9	8.6	1.7	12
13	4.0	8.3	6.0	287	504	944	244	31	22	7.5	8.3	2.4	13
14	4.4	621	6.0	157	269	754	246	36	19	6.8	6.9	2.7	14
15	11	139	5.8	60	257	809	242	42*	20	12	6.9	2.6	15
16	8.2	419	8.5	1,710	229*	776	217	41	16	13	7.9	2.5	16
17	3.9	88	9.1	520	142	812	202	36	16	12	8.5	3.0	17
18	3.6	20	47	1,690	89	799	204	33	27	15	9.4	3.2	18
19	3.5	5.9	41	489	40	770	201	27	17	11	7.0	3.2	19
20	3.3	4.5	10	155	29	922	173	32	18	9.1	11	3.4	20
21	3.0	3.8	7.6	99	26	981	119	30	16	7.9	12	2.8	21
22	2.7	3.6	6.9	119	23	1,030	91	24	19	7.6	8.3	2.4	22
23	2.9	2.9	6.4	44	20	1,010*	87	21	18	15	9.5	2.2	23
24	3.3	2.4	6.7	24	18	979	80	19	21	14	13	2.4	24
25	3.5	2.2	6.5	20	26	891	63	22	18	7.8	12	2.5	25
26	3.7	2.2	6.3	18	20	899	55	25	16	5.7	9.6	2.7	26
27	4.0	3.0	6.2	15	305	864	48	33	15	5.5	11	2.9	27
28	3.6	3.9	6.0	15	687*	846	50	29	15	4.9	12	3.1	28
29	3.1	4.2	6.0	22		801	64	23	18	6.0	13	2.9	29
30	3.1	3.7	5.9	361		805	81	22	13	6.9	12	2.7	30
31	3.5		5.6	206		793		24		7.6	7.1		31
AN.	3.7	46.6	8.5	265	234	746	265	38.9	19.3	9.8	8.9	2.7	MEAN
AX.	11.0	621	47.0	1,710	1,240	1,030	782	77.0	27.0	15.0	13.0	6.5	MAX.
IN.	1.9	2.2	4.1	4.9	18.0	98.0	48.0	19.0	13.0	4.9	2.3	1.0	MIN.
FT.	228	2773	526	16321	13016	45888	15784	2392	1146	604	549	160	AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
137.3	4930	12.75	01 16 1400	0.9	2.52	09 09 0330	99387

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 31 02	121 45 21	NE 28 8N 2E	14,700	18.48	1-24-1970	OCT 1957-DATE	OCT 1957-DATE	1957		24.57	USCGS

Station located at low water bridge, 0.8 mile below U. S. Highway 40 Bridge, 2.3 miles southwest of Davis. Tributary to Yolo Bypass. Treatment plant at the University of California at Davis discharges into the channel 100 feet upstream from gage. There is little or no flow 1,000 feet upstream from station during periods of heavy upstream diversion. Flows past the station are not computed during these periods.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A02935	YOLO BYPASS NEAR WOODLAND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	7.8	2.7	63	140	6,480	25,200	1,350	26	58	6.1	3.7	4.1
2	7.8	3.3	51	152	5,760	33,500	1,220	31	56	5.6	3.7 *	38
3	7.2	4.1	36	189	5,310	34,300	1,020	39	52	5.6	3.7	27
4	6.6	6.1	30	186	5,100	32,700	845 *	45	34	5.1	3.7	18
5	6.6	6.1	18	148	5,220 *	30,400	750	50	4.6	5.1	3.7	17
6	6.1	5.1	13	92	6,430	25,800	688	51	3.0	5.1	3.7	15
7	5.6	4.6	13	68	13,800	25,200	626	54	2.4	5.1	3.7	15
8	5.1	4.6	14	80 *	17,100	24,100 *	572	51	2.4	4.6	3.7	15
9	6.1	3.0	10	170	22,100	22,700	540	51	2.4	4.6	3.7	9.6
10	6.6	3.3	9.0	1,170	34,300	17,500	494	46	2.1	4.6	3.7	8.4
11	8.4	5.1	8.4 *	3,770	46,800	11,800	436	50	2.4	4.6	3.7	11
12	8.4	5.6	8.4	9,820	51,200	7,540	430	51	2.4	4.1	3.7	12
13	7.8	1.8	7.8	26,600	46,500	5,380	406	51	2.4	4.1	3.3	13
14	7.2	16	7.8	46,200	41,500	4,480	382	50	2.1	4.1	3.7	18 *
15	6.6	327	7.2	44,500 *	40,300	3,910	374	50	5.1 *	4.1	3.7	36
16	7.2	1,710	7.8	42,500	36,500	3,150	356	51	40	3.7	3.7	26
17	6.6 *	2,990	8.4	67,400	32,500	2,910	304	52	45	3.7	3.7	31
18	5.6	3,210	134	85,500	28,800	2,460	186	54	42	3.7	3.7	16
19	2.7	2,830	945	111,000	23,100	2,170	128 *	52	21	3.7	3.7	38
20	7.2	2,120	2,170	103,000 *	18,300	2,280	107	52	2.1	3.7	4.1	68
21	6.1	1,450 *	2,400	90,000	12,600	2,800	150	51	2.7	3.7	4.6	80
22	5.6	1,020	1,960	68,000	7,620 *	3,500	169	51	3.3	3.7	4.6	82
23	5.1	652	1,550	49,500	6,200	4,440	82	51	6.6	3.7	4.1	82
24	6.1	426	1,230	38,100	5,590	4,410	79	51	12	3.7	3.7	56
25	3.7	296	966	32,400	6,580	3,970	88	51	18	3.7	3.7	26
26	5.1	216	755	29,500	8,080	3,220	83	52	29	3.7	3.3	7.2
27	6.1	176	622	24,400	9,540	2,950	77 *	54	24 *	3.7	3.3	39
28	5.1	128	530	18,700	11,900	2,590	72	60	19	3.7	3.7	50
29	6.1	105	342	12,800	2,140	34	58	58	16	3.7	3.7	40
30	4.1	79	205	9,100	2,050	24	60	60	9.0	3.7	3.7	25
31	2.4		138	7,570	1,680		60	60		3.7	3.7	
MEAN	6.09	594	460	29,770	19,830	11,330	402	50.2	17.4	4.25	3.75	30.8
MAX.	8.4	3,210	2,400	111,000	51,200	34,300	1,350	60	58	6.1	4.6	82
MIN.	2.4	1.8	7.2	68	5,100	1,680	24	26	2.1	3.7	3.3	4.1
AC. FT.	374	35,390	28,280	1,830,000	1,101,000	696,700	23,940	3,090	1,030	261	230	1,830

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	
5,142	112,000	28.24	1 19 0800				3,723,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 40 40	121 38 35	SE 28 10N 3E	272,000	32.00	2-18-1942	MAR 30-OCT 38 # JAN 1939-DATE	1940-1941 # 1941-DATE	1930	1941	0.73 0.00 -3.41	USED USED USCGS

Station located just above the Sacramento-Woodland Railroad Bridge, 6 miles above the Sacramento Bypass, 7 miles below Fremont Weir, 7 miles east of Woodland. Supplementary water stage recorder, located 7 miles downstream, used for computations during periods of low flow. Stage-discharge relationship at supplementary recorder location at times affected by tidal action. Records furnished by U. S. Geological Survey.

Ø - Irrigation season only.
 # - Flood season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1,840	1,440	2,730 *	2,300	4,870	7,920	7,280	2,860	4,670	1,250	1,050 *	1,190	1
2	1,830	1,470 *	2,680	2,200	4,690 *	7,700	7,090	2,820	4,750	1,270	1,050	1,270	2
3	2,000	1,490	2,620	2,210	4,590	7,240	6,920 *	2,810	4,360	1,150	1,020	1,380	3
4	2,320	1,560	2,540	2,240	4,440	7,280	6,870	2,620	3,920	1,190	1,040	1,300	4
5	2,280	1,610	2,510	2,250	4,160	7,410	6,790	2,540	3,820	1,160	1,050	1,210 *	5
6	2,140	1,530	2,500	2,290	4,080	7,020	6,470	2,180	3,500	1,070	1,110	1,170	6
7	2,000	1,500	2,500	2,290	4,730	6,680	5,960	2,040	3,460	1,010	1,020	1,230	7
8	1,980	1,520	2,510	2,170 *	5,270	7,100	5,620	1,990	3,420	992	960	1,280	8
9	1,980	1,550	2,510	2,170	4,900	8,300	5,380	1,870	3,350	1,050	975	1,380	9
10	1,960 *	1,550	2,510	2,350	4,700	9,380	4,990	1,840 *	3,340	1,050	960	1,400	10
11	1,930	1,730	2,510	3,030	5,310	9,120	4,590	1,780	3,420	986	1,050	1,370	11
12	1,800	1,880	2,490	3,550	8,200	8,860	4,240	1,730	3,490 *	997	1,140	1,380	12
13	1,690	1,930	2,470	4,070	11,100	8,420	3,930	1,680	3,190	992	1,100	1,310	13
14	1,650	2,060	2,450	4,520	11,400 *	7,720	3,790	1,700	2,630	955	1,070	1,350	14
15	1,680	2,160	2,460	3,970	11,500	7,100	3,950	1,600	2,240	1,050	1,050	1,390	15
16	1,620	2,380	2,420	3,740 *	12,300	6,730	3,960	1,660	2,090	1,120 *	1,090	1,500	16
17	1,570	2,700	2,360	4,330	12,900	6,360	3,800	2,130	2,000	1,140	1,100	1,540	17
18	1,710	3,000	2,240	6,410	12,900	6,540	3,540	3,540	1,910	1,090	1,080	1,510	18
19	1,740	3,020	2,260	6,370	12,000	6,550	3,100	4,100	1,660	997	1,050	1,470	19
20	1,650	2,830	2,430 *	6,660	11,000	6,540	2,900	4,190	1,520	1,050	1,100	1,550	20
21	1,650	2,660	2,680	6,520	10,200	6,730	2,810	4,210	1,470	1,110	1,050	1,590	21
22	2,200	2,690	2,750	6,140 *	9,760	7,230	2,620	4,440	1,470	1,140	955	1,490	22
23	2,580	2,720	2,740	5,850	9,500	7,710	2,540	4,440	1,560	1,230	950	1,580	23
24	2,580	2,770	2,700	5,620	9,130	8,130	2,280	3,560	1,560	1,170	1,070	1,720	24
25	2,550	2,820	2,580	5,340	8,590	8,280	2,130	2,950	1,520	1,120	1,100	1,720	25
26	2,650	2,830	2,510	5,070	7,760	8,310	2,040	3,020	1,410	1,020	1,140	1,790	26
27	2,700	2,810	2,440	4,740	6,910 *	8,250	2,380	3,630	1,340	960	1,190	1,770	27
28	2,560	2,770	2,420	4,510	6,780	8,200	2,620	4,320	1,440	1,000	1,230	1,740	28
29	1,890	2,750	2,380	4,280	7,890	7,890	2,660	4,360	1,430	1,070	1,150	1,780	29
30	1,580	2,760	2,330	4,170	7,710	7,710	2,850	4,070	1,340	1,080	1,100	1,760	30
31	1,430	2,330	2,330	4,470	7,530	7,530	4,360	4,360	1,080	1,080	1,080	1,760	31
MEAN	1,992	2,216	2,502	4,059	7,988	7,611	4,203	2,937	2,576	1,082	1,067	1,471	MEAN
M. M.	2,700	3,020	2,750	6,660	12,900	9,380	7,280	4,440	4,750	1,270	1,230	1,790	MAX.
M. M.	1,430	1,440	2,240	2,170	4,080	6,360	2,040	1,600	1,340	955	950	1,170	MIN.
ACT.	122,500	131,900	153,800	249,600	443,600	468,000	250,100	180,600	153,300	66,540	65,610	87,510	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
3,278	13,100	21.63	2	18	0100						2,373,000

ESTIMATED
 NO RECORD
 * DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 † END *

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 40 34	121 15 55	NW 13 3S 6E	79,000	32.81	12-9-1950	JUL 22-DEC 23 †	JUL 22-DEC 23 †	1931	1959	5.06	USCGS	
						JAN 24-FEB 25	JAN 24-FEB 25	1959		0.00	USCGS	
						JUN 25-OCT 28 †	JUN 25-OCT 28 †	1959		3.3	USED	
						MAY 29-DATE	MAY 29-DATE					

Station located 30 feet above the Durham Ferry Highway Bridge, 3 miles below the Stanialaus River, 3.4 miles northeast of Vernalia. Maximum discharge listed at site then in use and present datum. Records furnished by U. S. Geological Survey. Drainage area is 13,540 square miles.

† - Irrigation season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B02920	DUCK CREEK DIVERSION NEAR FARMINGTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	0.0	0.0							1
2				0.0	0.0	0.0							2
3				0.0	0.0	0.0							3
4				0.0	0.0	0.0							4
5				0.0	0.0	0.0							5
6				0.0	0.0	44							6
7				0.0	117	1.7							7
8				0.0	0.0	174							8
9				191	0.0	0.0							9
10	N	N	N	48	36	0.0	N	N	N	N	N	N	10
11	O	O	O	137	210	0.0	O	O	O	O	O	O	11
12				40	31	0.0							12
13				0.0	0.0	0.0							13
14				0.0	0.0	0.0							14
15	F	F	F	0.0	0.0	0.0	F	F	F	F	F	F	15
16	L	L	L	513	0.0	0.0	L	L	L	L	L	L	16
17				72	0.0	0.0							17
18	O	O	O	243	0.0	0.0	O	O	O	O	O	O	18
19				0.0	0.0	0.0							19
20	W	W	W	0.0	0.0	2.0	W	W	W	W	W	W	20
21				0.0	0.0	3.8							21
22				0.0	0.0	2.0							22
23				0.0	0.0	0.0							23
24				0.0	0.0	0.0							24
25				0.0	0.0	0.0							25
26				0.0	0.0	0.0							26
27				0.0	0.0	0.0							27
28				0.0	99	0.0							28
29				0.0	0.0	0.0							29
30				0.0	0.0	0.0							30
31				0.0	0.0	0.0							31
MEAN				40	18	7.3							AM
MAX.				513	210	174							LX
MIN.				0.0	0.0	0.0							W
AC. FT.				2,467	978	451							FI

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
5.4	1,406		1 16				3,897

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 56 18	120 59 21	NE 16 1N 9E	3,690	7.65	4-2-1958	SEPT 1951-DATE	SEPT 1951-DATE	1951		105.0	USCGS

Station located 1.0 mile northeast of Farmington. Flows are diversions from Duck Creek to Littlejohn Creek. Records furnished by U. S. Corps of Engineers. Drainage area is 28 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B02870	LITTLEJOHN CREEK AT FARMINGTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.0 E	4.0 E	5.0 E	15 E	328	470	105	15 E	5.0 E	5.0 E	10 E	30	1
2	4.0 E	4.0 E	5.0 E	15 E	258	466	88	15 E	5.0 E	5.0 E	10 E	30	2
3	4.0 E	4.0 E	5.0 E	15 E	153	460	73	15 E	5.0 E	5.0 E	10 E	33	3
4	4.0 E	4.0 E	5.0 E	15 E	177	466	55	15 E	5.0 E	5.0 E	10 E	32	4
5	4.0 E	4.0 E	5.0 E	15 E	154	468	50	15 E	5.0 E	5.0 E	10 E	30	5
6	4.0 E	4.0 E	5.0 E	15 E	293	486	47	15 E	5.0 E	5.0 E	10 E	25 E	6
7	4.0 E	4.0 E	5.0 E	15 E	551	640	42	15 E	5.0 E	5.0 E	10 E	30	7
8	4.0 E	4.0 E	5.0 E	15 E	466	1,228	40	15 E	5.0 E	5.0 E	10 E	30	8
9	4.0 E	4.0 E	5.0 E	233	450	1,777	38	15 E	5.0 E	5.0 E	10 E	30	9
0	4.0 E	6.0 E	5.0 E	648	484	894	36	15 E	5.0 E	5.0 E	10 E	35	10
1	4.0 E	15 E	5.0 E	799	1,086	470	33	15 E	5.0 E	5.0 E	10 E	33	11
2	4.0 E	15 E	5.0 E	752	1,774	470	31	15 E	5.0 E	5.0 E	10 E	25 E	12
3	4.0 E	20 E	5.0 E	1,230	2,009	468	25 E	15 E	5.0 E	5.0 E	10 E	31	13
4	4.0 E	20 E	5.0 E	1,344	1,894	458	25 E	15 E	5.0 E	5.0 E	10 E	25 E	14
5	4.0 E	20 E	5.0 E	238	1,910	420	32	15 E	5.0 E	5.0 E	10 E	20 E	15
6	4.0 E	20 E	5.0 E	956	1,975	250	28	10 E	5.0 E	5.0 E	10 E	25 E	16
7	4.0 E	26	5.0 E	1,340	1,897	199	25 E	10 E	5.0 E	5.0 E	10 E	30	17
8	4.0 E	26	15 E	1,602	750	185	25 E	10 E	5.0 E	5.0 E	10 E	31	18
9	4.0 E	20 E	82 E	1,470	458	174	25 E	10 E	5.0 E	5.0 E	10 E	46	19
0	4.0 E	20 E	142	528	410	312	25 E	10 E	5.0 E	5.0 E	10 E	36	20
1	4.0 E	20 E	98	1,600	302	430	20 E	10 E	5.0 E	5.0 E	10 E	48	21
2	4.0 E	15 E	68	466	255	454	20 E	10 E	5.0 E	5.0 E	15 E	44	22
3	4.0 E	15 E	54	250	230	462	20 E	10 E	5.0 E	5.0 E	15 E	48	23
4	4.0 E	15 E	48	156	212	460	20 E	10 E	5.0 E	5.0 E	15 E	61	24
5	4.0 E	10 E	61	130	201	434	20 E	10 E	5.0 E	5.0 E	15 E	61	25
6	4.0 E	10 E	40	168	193	400	20 E	10 E	5.0 E	5.0 E	15 E	59	26
7	4.0 E	10 E	25 E	142	193	266	20 E	10 E	5.0 E	5.0 E	20 E	71	27
8	4.0 E	10 E	20 E	118	503	180	20 E	10 E	5.0 E	5.0 E	20 E	71	28
9	4.0 E	10 E	20 E	101	153	153	20 E	10 E	5.0 E	5.0 E	20 E	59	29
0	4.0 E	10 E	20 E	201	127	127	20 E	10 E	5.0 E	5.0 E	20 E	48	30
1	4.0 E	20 E	20 E	324	110	110	20 E	10 E	5.0 E	5.0 E	20 E	48	31
AN.	4.0 E	12.2 E	25.7 E	481 E	675	459	34.9 E	12.4 E	5.0 E	5.0 E	12.4 E	39.2 E	MEAN
AX.	4.0 E	26	142	1,602	2,009	1,777	105	15 E	5.0 E	5.0 E	20 E	71	MAX.
AN.	4.0 E	4.0 E	5.0 E	15 E	153	110	20 E	10 E	5.0 E	5.0 E	10 E	20 E	MIN.
FT.	246 E	724 E	1,583 E	29,586 E	38,809	28,239	2,079 E	764 E	298 E	307 E	764 E	2,335 E	AC.FT.

WATER YEAR SUMMARY

E - ESTIMATED
 - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 * - END *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
39.2 E	2,086		2	13		4.0 E		10	1		105,713 E

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 55 38	121 00 08	NE 20 1N 9E	3,590	15.40	4-3-1958	JUNE 1952-DATE	JUNE 1952-DATE	1952		89.97	USCGS

Station located 340 feet below Farmington-Escalon Highway Bridge. Flows entering Littlejohn Creek via Duck Creek Diversion are included. Flow regulated by Farmington Reservoir. Records furnished by U. S. Corps of Engineers.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	802805	FRENCH CAMP SLOUGH NEAR FRENCH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	127	8.0	3.0	26	449	529	77	115	104	64	38	NR	
2	123	7.0	2.6	24	386	476	74	93	119	47	NR	NR	
3	105	8.9	2.0	22	199	453	73	60	112	27	NR	NR	
4	118	15 *	4.3	20	207	529	84	73	110	39	NR	56	
5	74	17	4.9	19	208	530	88	52	68	36	NR	63	
6	38 **	14	5.5	17	211	487	74	61	49	15	NR	48 **	
7	19	12	6.8	15	707	750	48	67	58	9.1	NR	75	
8	16	10	6.4	17	634	1,220	46	61	78	34	NR	116	
9	9.8	9.2	7.0	59	523	1,760	54	62	69	37	NR	134	
10	24	9.9	4.9	872	540	1,190	49	56	70	68	NR	123	
11	17	31	3.8	976	1,060	590	39	42	92	73	NR	130	
12	17	62	3.1	1,040	1,810	553	53	38	57	59	NR	155	
13	16	35	3.2	1,210	1,970	492	63	53	75	50	NR	154	
14	14	52	3.3	1,530	1,870	454	143	48	73	48	NR	155	
15	13	85	3.7	554	1,660	406	106	28 **	76	51	NR	135	
16	11	124	4.2	789	1,680	201	85	37	52	33	NR	142	
17	14	127	6.5	1,630	1,590	103	68	46	66	21	NR	125	
18	9.1	69	31	1,900	950	83	65	49	75	38	NR	147	
19	6.3	39	53	1,610	447	72	72	66	91	59	NR	144	
20	7.1	27	177	1,950	361	230	89	72	114	62	NR	163	
21	9.5	21	162 *	1,690	179	478	93	72	112	93	NR	165	
22	5.9	16	114	879	138	554	95	66	78	66	NR	165	
23	4.9	12	79	389	114	526	73	94	99	31	NR	173	
24	4.9	9.6	68	200	97	484	58	91	100	15	NR	123	
25	4.8	8.3	69	154	85	461	63	97	66	17	NR	129	
26	6.3	6.4	66	214	78	427	74	94	33	23	NR	131	
27	5.2	4.7	50	208	78	289	82 *	90	41	38	NR	109	
28	6.8	4.1	44	155	420	144	65	116	33	36	NR	111	
29	8.7	4.0	37	122		119	65	122	33	50	NR	83	
30	6.9	2.8	32	190		89	93	89	41	37	NR	107	
31	7.2		29	487		79		86		42	NR		
MEAN	27.4	28.4	35.0	611	666	476	73.7	70.8	74.8	42.5	NR	NR	
MAX.	127	127	177	1,950	1,970	1,760	143	122	119	93.0	NR	NR	
MIN.	4.8	2.8	2.0	15.0	78.0	72.0	39.0	28.0	33.0	9.1	NR	NR	
AC. FT.	1685	1688	2154	37622	36994	29272	4385	4356	4451	2614	NR	NR	

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 52 52	121 14 53	NE 6 1S 7E	3,390	6.31	12-9-1950	JAN 50-MAY 50 OCT 50-DATE	JAN 50-MAY 50 OCT 50-DATE	1950	1955	0.00 4.00	LOCAL LOCAL

Station located at Airport Way Bridge, 1.5 miles east of French Camp. During periods when backwater from a temporary diversion dam affects the stage-discharge relationship, a supplementary water stage recorder, located 0.5 mile downstream on the bypass, is used for computations. Tributary to San Joaquin River. Maximum discharge listed at site and datum then in use.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	802835	DUCK CREEK NEAR STOCKTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
	3.0	1.2	0.0*	0.7	11	49	0.0	2.9	9.6	9.6	7.7	14	1
	2.0	4.1	0.0	0.4	7.6	15	0.0*	3.8	12	9.4	6.9	15	2
	1.3	6.0	0.0	0.2	4.9	11	0.0	3.6	16	7.9	7.0	13	3
	1.5	7.6	0.0	0.1	10	42	0.0	4.3	13	11	5.9	12	4
	2.1	8.0	0.0	0.0	72	32	0.0	3.3	13	13	9.7	20	5
	2.2*	3.0	0.0	0.0	39	17	0.0	3.9	9.4	14	9.2	24	6
	3.4	1.4	0.0	0.0	302	137	0.0	4.9	12	15	10	25	7
	5.2	1.1	0.0	0.4	78	226	0.0	4.7	8.5	12	10	24	8
	3.5	0.7	0.0	46	18	77	0.1	3.2	9.1	12	6.3	22	9
	2.4	1.4	0.0	352	113	19	0.2	3.2	11	14	7.9	19	10
	3.5	17	0.0	80	393	11	1.1	3.1	9.9	14	9.8	15	11
	2.9	11	0.0	364	277	7.9	3.3	6.0	10	14	8.7	17	12
	2.9	4.8	0.0	76	86	5.9	1.9	9.4	10	12	6.4	19	13
	2.5	12	0.0	22	44	2.9	0.7	9.6	12	7.7	9.4	20	14
	1.3	16	0.0	9.8	91	1.5	0.4	8.8	13	8.5	11	19	15
	1.1	16 *	0.0	351	24	0.7	0.0	4.6	16	6.8	10	15	16
	1.1	12	0.2	422	9.7	0.4	0.0	6.2	18	6.1	7.6	9.5	17
	1.0	4.3	0.4	220	6.9	0.4	1.2	11	15	7.9	9.1	12	18
	1.1	3.0	1.1	209	4.7	0.2	1.5	14	14	12	9.0	14	19
	0.0	2.0	4.9	74	2.2	28	2.5	11	15	12	9.9	16	20
	0.1	1.0	15	21	0.8	45	2.9	8.3	11	9.3	7.4	16	21
	0.6	0.5	9.1	7.2	0.6	110	1.9	8.9	15	8.9	9.7	14	22
	0.5	0.3	4.1	5.5	1.3	34	1.6	9.9	14	8.6	11	14	23
	0.1	0.2	2.7	3.2	1.1	13	1.4	8.8	14	9.9	9.9	12	24
	0.3	0.1	2.9	3.2	0.3	7.5	1.0	13	14	10	11	9.8	25
	1.1	0.0	7.6	25	1.6	2.9	1.4	10	11	8.6	16	11	26
	1.6	0.0	6.7	19	9.6	1.6	1.7*	9.7	8.6	9.3	16	12	27
	1.1	0.0	3.0	8.0	133	0.9	1.5	12	6.0	9.1	14	9.6	28
	1.7	0.0	2.2	6.4		1.0	1.5	13	3.5	7.5	13	13	29
	1.3	0.0	1.6	8.1		0.4	1.6	14	6.7	6.3	16	14	30
	1.5		1.0	12		0.1		11		6.7	14		31
MIN	1.7	4.5	3.4	75.7	62.2	29.0	1.0	7.7	11.7	10.1	10.0	15.7	MEAN
MAX.	5.2	17.0	49.0	422	393	226	3.3	14.0	18.0	15.0	16.0	25.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.3	0.1	0.0	2.9	3.5	6.1	5.9	9.5	MIN.
TOT.	107	267	211	4654	3456	1786	58	476	695	621	614	932	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
N - NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	
19.2	782	6.51	01	16	2345	0.0	1.81	10	24	1745	13877

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 55 30	121 15 02	NE 35 1N 7E	782	6.51	1-16-1973	JAN 50-APR 50	JAN 50-APR 50	1950	1953	0.00	LOCAL
						OCT 50-APR 51	OCT 50-APR 51	1953	1957	0.00	LOCAL
						OCT 51-OCT 70	OCT 51-OCT 70	1957	1965	0.00	LOCAL
						OCT 71-DATE	OCT 71-DATE	1965		0.00	LOCAL

Station located 35 feet below B Street Bridge, immediately south of Stockton. Prior to November 10, 1965, station located at Laurel Avenue, 0.2 mile upstream from present location. Tributary to San Joaquin River via French Camp Slough. During high flow, water from Duck Creek enters Mormon Slough approximately 2 miles east of the head of Stockton Diverting Canal. Discharge listed does not include this overflow. Flow regulated by gravity culverts which divert to Littlejohn Creek. Maximum discharge listed at site and datum then in use.

TABLE B-5 (Cont.)

WATER YEAR	STATION NO.	STATION NAME
1973	B02520	CALAVERAS RIVER NEAR STOCKTON

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	6.3	7.5	4.5	0.0	37	43	4.8	3.9*	14	9.1	13	30
2	1.9	8.0	2.0	0.0*	34	27	4.6	23	13	16	9.4	27
3	1.4	8.0	0.7	0.0	33	13	23	21	14	19	14	19
4	1.2	8.6	0.2	0.0	34	67	20	14	16	10	12	16
5	1.0	14	0.0	0.0	37	38	21	22	6.5	16	15	7.8
6	0.8*	11	0.1	0.0	41	34	22	20	27	20	15	7.6*
7	0.8	9.1	0.1	0.0	180	56	5.7	7.6	33	17	17	5.0
8	1.2	9.1	0.2	0.0	45	142	6.4	11	21	11	21	9.4
9	3.5	9.8	0.0	1.6	42	63	5.4	19	16	3.8	19	10
10	18	11	0.0	38	113	21	6.6	9.4	9.5	1.3	27	14
11	21	18	0.1	16	234	20	7.1	7.0	8.0	19	24	22
12	12	14	0.0	27	132	25	4.6	10	15	10	19	16
13	2.6	5.4	0.5	17	39	22	4.8	8.1	16	6.4	18	13
14	0.4	2.0	0.2	4.8	19	21	4.5	9.2	14	23	16	6.2
15	0.3	0.3	0.2	1.6	40	20	4.0	12	14	28	7.1	2.1
16	0.0	3.4	0.2	83	42	17	4.7	20	18	22	11	1.3
17	0.5	12	0.8	170	34	13	1.9	19	22	26	7.9	1.4
18	0.0	4.7	0.9	63	25	5.2	0.0	15	7.1	19	16	2.3
19	0.0	1.5	8.1	120	20	3.0	0.0	9.0	2.5	14	18	3.6
20	0.0	0.0	13	12	18	14	0.0	5.8	1.9	8.2	17	14
21	0.0	0.0	8.5	3.3	22	19	0.0	2.3	0.8	1.5	19	26
22	0.6	0.0	5.8	0.9	24	41	0.0	8.5	13	15	16	13
23	4.8	0.0	6.6	12	22	17	0.0	14	16	22	26	12
24	4.8	0.5	4.9	18	17	7.2	2.8	23	37	17	28	6.2
25	2.5	3.9	5.1	21	15	3.3	15	17	28	16	21	13
26	1.0	4.4	4.7	29	14	1.3	17	29	28	16	20	5.4
27	0.6	4.7	3.7	31	36	0.2	3.8	32	21	24	13	4.1
28	1.8	4.8	2.6	34	51	0.0	2.3	32	26	16	15	3.7
29	5.0	5.0	1.0	33	0.0	0.0	1.8	20	19	10	27	7.4
30	5.5	5.2	0.2	45	0.0	0.0	1.4	17	16	6.8	34	3.0*
31	5.7	0.0	0.0	42	0.8	0.8	15	15	8.6	29	29	1
MEAN	3.4	6.2	2.4	26.6	50.0	24.3	6.5	15.3	16.4	14.6	18.2	10.7
MAX.	21.0	18.0	13.0	170	234	142	23.0	32.0	37.0	28.0	34.0	30.0
MIN.	0.0	0.0	0.0	0.0	14.0	0.0	0.0	2.3	0.8	1.3	7.1	1.3
AC. FT.	209	369	149	1633	2777	1496	387	944	978	896	1119	638

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
16.0	331	7.32	02	11	1115	0.0	3.03	10	17	2245	11594

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 01 14	121 13 45	SE 17 2N 7E	760 E	12.61	1-6-1965	DEC 1948-DATE	DEC 1948-DATE	1948	1949	0.00	LOCAL
								1949	1950	0.00	LOCAL
								1950	1952	0.00	LOCAL
								1952	1955	2.00	LOCAL
								1955	1959	0.00	LOCAL
								1959	1965	0.00	LOCAL
								1965		0.00	LOCAL

Station located below Solari Road Bridge, 5 miles northeast of Stockton. Flows are regulated by diversion dam at Bellota operated by Stockton East San Joaquin Water Conservation District. Maximum discharge listed at site and datum then in use.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	802560	MORMON SLOUGH AT BELLOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	NR			NR	1,430	3,090	55						1
2	NR			NR	1,420	451							2
3	NR			NR	1,430	164							3
4	NR			NR	1,560	1,400							4
5	NR			NR	1,530	2,100							5
6	NR			NR	1,640	2,330							6
7	NR			32	2,540	2,240							7
8	NR			78	2,000	2,930							8
9	NR	N	N	663	1,590	438							9
10	NR			858	2,430	196	N	N	N	N	N	N	10
11	NR	O	O	410	3,470	1,210	O	O	O	O	O	O	11
12	NR			932	3,900	1,080							12
13	78			337	5,400	1,020							13
14	20			147	5,460	1,000							14
15	18	R	R	95	5,350	971	R	R	R	R	R	R	15
16	19	E	E	1,970	4,270	556	E	E	E	E	E	E	16
17	19			1,200	1,910	185							17
18	27	C	C	1,120	946	86	C	C	C	C	C	C	18
19	NR			560	594	72							19
20	NR	O	O	195	756	377	O	O	O	O	O	O	20
21	NR	R	R	129	1,490	234	R	R	R	R	R	R	21
22	NR			139	1,350	334							22
23	NR	D	D	428	866	144	D	D	D	D	D	D	23
24	NR			441	524	99							24
25	NR			499	492	78							25
26	NR			554	222	68							26
27	NR			1,290	248	62							27
28	NR			1,380	1,690	55							28
29	NR			1,120		54							29
30	NR			417		49							30
31	NR			1,020		53							31
MEAN	NR	NR	NR	NR	2,018	746	NR	NR	NR	NR	NR	NR	NR
MAX.	NR	NR	NR	NR	5,460	3,090	NR	NR	NR	NR	NR	NR	NR
MIN.	NR	NR	NR	NR	222	49.0	NR	NR	NR	NR	NR	NR	NR
AC.FT.	NR	NR	NR	NR	112082	45870	NR	NR	NR	NR	NR	NR	NR

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
 - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
NR	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
NR	NR			NR			NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 03 10	121 00 37	SW 5 2N 9E				DEC 1948-DATE	DEC 1948-DATE	1948	1952	0.00	LOCAL
								1952		0.00	LOCAL

Station located 0.2 mile above Farmington-Bellota Highway Bridge, 0.2 mile east of Bellota. Flow regulated by Hogan Reservoir. During irrigation season, flow is reregulated by boards placed across diversion dam immediately downstream which control diversion of water between the Calaveras River and Mormon Slough. This is flow from Calaveras River which is returned to the river via Stockton Diverting Canal. Flows are computed for the period when boards are not placed across the diversion dam.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	802580	STOCKTON DIVERTING CANAL AT STOCKTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	NR	0.0*	0.0*	0.0	1,300 *	2,490	22	2.0	0.9	0.9	0.2	2.9
2	NR	0.0	0.0	0.0*	1,420	836	19	2.0	0.6	1.6	0.8	3.7
3	NR	0.0	0.0	0.0	1,450	175	5.2	3.5	0.6	1.4	1.0	8.0
4	NR	0.0	0.0	0.0	1,550	998	1.0	3.1	0.6	1.1	0.9	7.3
5	NR	0.0	0.0	0.0	1,550	1,770	0.1	1.9	0.6	0.7	0.5	0.3
6	NR	0.0	0.2	0.0	1,620	1,850	0.0	1.8	0.7	0.5	1.6	0.3
7	0.0	0.0	0.1	0.0	2,770	2,240	0.0	1.6	0.8	0.4	2.0	0.2
8	0.0	0.0	0.0	0.1	2,120 *	2,750	0.0	1.6	0.9	0.3	1.3	0.2
9	0.0	0.0	0.0	202	1,590	799	0.0	1.5	0.9	0.2	0.5	0.2
10	0.0	0.0	0.0	1,280	2,380	268	0.0	0.9	0.9	0.0	0.5	0.2
11	0.0	0.0	NR	350	3,410	898	0.0	0.9	1.2	0.0	0.5	1.1
12	0.0	35	NR	1,350	3,550	1,020	0.0	0.6	1.5	0.0	0.5	1.5
13	0.0	32	NR	572 *	4,790 *	956	0.0	0.6	0.9	0.0	0.5	1.2
14	NR	30	NR	212	4,650	929	0.0	0.7	0.9	0.0	0.5	1.1
15	NR	34	NR	98	4,650	914	0.1	0.8*	0.9	0.0	0.5	1.0
16	NR	35 *	NR	1,900	3,570	616	1.4	0.8	0.9	0.0	0.5	0.7
17	NR	35	NR	2,030	1,810	310	0.5	0.8	0.9	0.0	0.5	0.6
18	NR	20	NR	1,160	925	88	0.0	2.2	0.9	0.0	0.5	0.3
19	NR	10	NR	1,080	563	78	0.0	1.8	0.9	0.0	0.5	0.0
20	NR	0.0	NR	286	542	353	0.0	1.3	0.9	0.4	0.5	0.0
21	NR	0.0	NR	147	1,220	273	0.0	0.9	0.9	0.4	0.5	0.0
22	NR	0.0	NR	96	1,210	326	0.0	0.9	0.9	0.7	0.5	0.0
23	0.0	0.0	NR	329	840	200	0.0	0.9	0.9	0.9	0.3	0.0
24	0.0	0.0	NR	413	479	102	0.0	0.9	8.9	0.1	0.1	5.7*
25	0.0	0.0	NR	466	440	74	0.0	0.9	10	1.5	0.0	0.9
26	0.0	0.0	NR	559	277	65	0.2	0.9	1.8	1.7	0.0	0.9
27	0.0	0.0	NR	1,060	235 *	60	0.5	1.7	1.3	1.1	0.7	0.9
28	0.0	0.0	NR	1,250	1,180	56	0.7	4.6	1.3	0.7	1.7	0.9
29	0.0	0.0	NR	1,190		53	0.9	1.5	1.3	0.4	5.1	0.9
30	0.0	0.0	NR	425 *		50	1.2	1.2	1.1	0.1	3.1	0.5
31	0.0		NR	877 *		53		1.1		0.3	0.2	
MEAN	NR	7.7	NR	559	1,860	698	1.8	1.5	1.5	0.5	0.9	1.4
MAX.	NR	35.0	NR	2,030	4,790	2,750	22.0	4.6	10.0	1.7	5.1	8.0
MIN.	NR	0.0	NR	0.0	235	50.0	0.0	0.6	0.6	0.0	0.0	0.0
AC. FT.	NR	458	NR	34378	103321	42942	105	91	91	31	53	82

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECQRD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 59 12	121 15 30	SE 42 2N 6E	11,400 E	17.10 E	4-4-1958 E	JAN 1944-DATE	JAN 1944-DATE	1954	1969	0.00	LOCAL
								1969		0.00	LOCAL

Station located 60 feet below Cherokee Lane Bridge crossing over Stockton Diverting Canal. This water diverted from the Calaveras River by Mormon Slough and returned to the river by Stockton Diverting Canal.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	802010	BEAR CREEK NEAR LODI

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.4	0.0	0.1	2.3	54	147	1.1						NR 1
2	2.6	0.1	0.1	2.0	38	62	0.9						NR 2
3	2.1	0.7	0.1	1.9	30	92	1.6						NR 3
4	2.4	2.4	0.1	1.8	41	416	3.5						NR 4
5	2.6	2.8	0.1	1.7	47	107	NR						NR 5
6	2.6*	2.3	0.1	1.8	88	242	NR						NR 6
7	0.6	0.3	0.2	1.9	692	266	NR						NR 7
8	0.1	0.1	0.2	2.3	240	894	NR						NR 8
9	0.1	0.0	0.2	312	85	362	NR						NR 9
10	0.1	0.0	0.2	772	663	92	NR	N	N	N	N		NR 10
11	4.9	28	0.2	256	1,180	111	NR	O	O	O	O		NR 11
12	27	19	0.4	942	691	69	NR						NR 12
13	17	4.0	0.4	316 *	279	47	NR						NR 13
14	8.3	51	0.3	108	130	36	NR						NR 14
15	5.1	91	0.4	62	134	28	NR	R	R	R	R		NR 15
16	1.6	131 *	0.4	1,580	67	24	NR	E	E	E	E		NR 16
17	1.4	44	0.7	976	50	20	NR						NR 17
18	0.8	13	1.7	812 *	43	17	NR	C	C	C	C		NR 18
19	3.5	4.7	10	530	37	16	NR						NR 19
20	1.8	1.8	31	95	33	155	NR	O	O	O	O		NR 20
21	2.4	0.8	15 *	54	29	90	NR	R	R	R	R		NR 21
22	0.4	0.5	9.4	46	26	178	NR						NR 22
23	0.2	0.4	36	34	23	65	NR	D	D	D	D		NR 23
24	0.2	0.3	19	27	20	42	NR						NR 24
25	0.0	0.2	14	78	18	31	NR						NR 25
26	0.0	0.1	9.5	85	23	25	NR						NR 26
27	0.0	0.1	5.4	43	308 *	22	NR						NR 27
28	0.0	0.1	3.8	32	496	19	NR						NR 28
29	0.1	0.1	2.6	26		13	NR						NR 29
30	0.1	0.1	2.7	263		2.2	NR						NR 30
31	0.0		3.0	101		2.1							NR 31
AN	3.0	13.3	5.4	244	198	119	NR	NR	NR	NR	NR	NR	MEAN
AX.	27.0	131	36.0	1,580	1,180	894	NR	NR	NR	NR	NR	NR	MAX.
JN.	0.0	0.0	0.1	1.7	18.0	2.1	NR	NR	NR	NR	NR	NR	MIN.
FT.	185	791	332	15006	11038	7324	NR	NR	NR	NR	NR	NR	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 04 27	121 12 40	SE 28 3N 7E	4,550	8.33	1-22-1967	DEC 1965-DATE	FEB 1965-DATE	1965		44.45	USCGS

Station located 50 feet above Alpine Road Bridge, 5.0 miles southeast of Lodi. Tributary to San Joaquin River via Disappointment Slough. Drainage area is 36.7 square miles. A removable board dam, 1/2 mile below gaging station, impounds flows during the irrigation season. Discharges are not computed for the period the dam is in operation.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B02105	MOKELUMNE RIVER AT WOODBRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	58	55	69	347	999	886	578	145	683	310	307	164	1
2	58	54	69	347	982	940	576	138	707	323	310	132	2
3	58	54	70	348	972	947	574	113	719	306	320	131	3
4	57	75	70	348	966	965	569	99	722	322	297	133	4
5	58	73	70	348	958	948	569	124	733	296	317	158	5
6	56	71	72	348	962	949	564	130	670	308	333	154	6
7	48	71	73	348	983	949	550	134	571	305	330	151	7
8	47	71	72	355	989	995	550	133	566	307	331	148	8
9	47	71	71	387	970	1,170	545	134	785	302	304	151	9
10	46	80	71	400	1,080	1,180	519	158	859	290	273	157	10
11	117	120	84	378	1,180	1,180	336	233	873	293	190	149	11
12	114	95	67	579	1,210	1,180	317	253	859	298	194	148	12
13	101	91	78	1,290	1,180	1,170	313	291	844	289	219	153	13
14	102	101	73	1,700	1,690	1,150	317	268	826	294	206	168	14
15	95	91	73	1,750	1,970	429	314	236	821	329	211	212	15
16	92	99	73	1,820	1,990	254	312	429	599	324	184	241	16
17	88	87	81	1,940	1,870	615	255	447	579	301	237	307	17
18	79	75	80	1,890	1,770	700	263	454	583	305	207	295	18
19	237	73	79	1,910	1,760	728	259	442	400	310	198	313	19
20	472	72	56	1,860	1,760	736	254	440	344	319	210	307	20
21	157	71	107	1,840	1,360	734	238	454	319	331	209	301	21
22	111	71	193	1,830	1,130	728	248	449	309	348	214	306	22
23	83	70	286	1,830	1,120	720	246	431	310	341	224	324	23
24	73	70	324	1,830	1,020	766	163	432	328	322	221	374	24
25	70	70	333	1,850	961	780	167	446	333	318	257	350	25
26	61	70	336	1,850	960	778	177	622	316	316	262	339	26
27	58	70	341	1,640	896	758	172	638	283	321	263	341	27
28	55	70	345	1,440	845	761	161	643	294	333	260	338	28
29	55	70	346	1,420		756	155	620	299	334	264	341	29
30	54	70	347	1,180		769	153	636	301	336	264	332	30
31	55		347	1,040		611		628		313	263		31
MEAN	92.3	76	153	1,176	1,233	846	347	348	561	314	254	237	MEA
MAX.	472	120	347	1,940	1,990	1,180	578	643	873	348	333	374	MA
MIN.	46	54	56	347	845	254	153	99	283	289	184	131	MP
AC. FT.	5,680	4,520	9,430	72,280	68,500	52,030	20,660	21,420	33,390	19,330	15,630	14,120	AC.F

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
465	2,000	14.79	2 16 1900	46		10 10	337,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD ⁸		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 09 30	121 18 10	NE 34 4N 6E	27,000	29.58	11-22-1950	MAY 24-OCT 25 8 JAN 26-DATE	MAY 1924-DATE	1924	1931	18.9	USCGS
								1931		14.9	USCGS

Station located 0.3 mile below county highway bridge, 0.4 mile below dam and canal intake of Woodbridge Irrigation District. Flow regulated by reservoirs and powerplants. Records furnished by U. S. Geological Survey. Drainage area is 661 square miles.

⁸ - Irrigation season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
IN CUBIC FEET PER SECOND

WATER YEAR	STATION NO.	STATION NAME
1973	821160	SUTTER CREEK NEAR SUTTER CREEK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.3	4.4	12	85	121	66	21	11	3.0	0.0	0.0	1
2	0.0	1.3*	4.2	11	73	99	61	21	12	2.9	0.0*	0.0	2
3	0.0*	1.3	4.3	12	68	106	55	20	10	2.8	0.0	0.0	3
4	0.0	8.4	6.6	11	83	155	51	21	9.3	2.3	0.0	0.0	4
5	0.0	6.1	7.0	9.9	72	118	48	25	8.4	1.8	0.0	0.0*	5
6	0.0	3.4	7.6	9.6	77	115	46	22	7.9	1.7	0.0	0.0	6
7	0.0	3.8	9.4	9.0	304	116	42	20	7.6	1.6	0.0	0.0	7
8	0.0	5.3	8.6	11	186	122	41	19	7.3	1.5	0.0	0.0	8
9	0.0	3.8	6.5	137	135	103	39	18	6.8	1.5	0.0	0.0	9
10	0.0	3.8	6.9	158	378	100	37	17	6.6	1.4	0.0	0.0	10
11	0.0	15	6.0	288	545	129	35	16	6.7	1.4	0.0	0.0	11
12	0.0	12	6.5	671	664	100	34	16	6.6	1.3	0.0	0.0	12
13	0.0	7.4	6.1	195	310	89	40	16	6.6	1.3	0.0	0.0	13
14	0.0	36	5.8	106	297	80	41	15	6.8	1.3	0.0	0.0	14
15	0.0	21 *	6.2	83	236	73	35	15	6.9	1.4	0.0	0.0	15
16	0.0	33	6.7	476	172	68	34	14	6.8	1.5	0.0	0.0	16
17	0.1	17	119	259	138	64	41	14	6.8	1.5	0.0	0.0	17
18	1.1	11	73	312	116	61	52	13	6.2	1.4	0.0	0.0	18
19	1.1	8.2	87	226	100	59	38	12	5.6	1.4	0.0	0.0	19
20	0.8	7.0	46	133	87	117	34	12	5.2	1.4	0.0	0.0	20
21	0.8	6.2	28	103	78	108	31	12	4.9	1.5	0.0	0.0	21
22	0.9	6.1	45	82	71	123	30	12	4.7	1.4	0.0	0.0	22
23	0.8	5.6	35	69	66	112	29	12	4.9	1.3	0.0	0.0	23
24	0.8	5.2	28	60	62	98	27	12	4.8	1.2	0.0	0.0	24
25	0.8	5.2	22	62	57	87	26	13	4.5	1.0	0.0	0.0	25
26	0.7	4.8	18	56	85	84	25	12	4.1	0.9	0.0	0.0	26
27	0.7	4.8	16	47	161	80	24	12	4.0	0.6	0.0	0.0	27
28	0.8	4.4	16	42	226	79	23	11	4.4	0.7	0.0	0.0	28
29	0.8	4.4	15	53		69	23	10	3.7	0.6	0.0	0.0	29
30	0.9	4.4	13	140		67	22	9.5	3.2	0.4	0.0	0.0	30
31	1.0		13	108		75		10		0.1	0.0		31
MEAN	0.4	8.6	21.8	127	176	96.0	37.7	15.2	6.5	1.4	0.0	0.0	MEAN
MAX.	1.1	36.0	119	671	664	155	66.0	25.0	12.0	3.0	0.0	0.0	MAX.
MIN.	0.0	1.3	4.2	9.0	57.0	59.0	22.0	9.5	3.2	0.1	0.0	0.0	MIN.
TOTAL	24	510	1342	7838	9782	5905	2241	937	385	87			TOTAL ACRE FEET

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF FLOW MADE THIS DAY.
 * - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
40.1	1130	3.66	01	12	0100	0.0	0.50	10	01	0000	29053

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
38 23 45	120 46 50	SE 5 6N 11E	5,770 E	6.27	1-31-1963	JAN 36-DEC 41 MAR 1960-DATE	JAN 36-DEC 41 MAR 1960-DATE	1936	1938	-4.00	LOCAL	
								1938		0.00	LOCAL	

Station located 0.4 mile below Volcano Road Bridge, 1.3 miles east of Sutter Creek. Tributary to Cosumnes River via Dry Creek. Drainage area is 48.1 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B01520	DRY CREEK NEAR GALT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1		0.0	0.0	26	519	1,220	296	57	16		0.0	3.0	
2		0.0	0.0	24	407	650	256	49	16		0.0	2.0	
3		0.0	0.0	21	348	582	234	54	15		0.0	1.0	
4		0.0	0.0	18	474	1,390	215	51	8.8		0.0	0.5	
5		0.0	0.0	15	442	758	201	53	4.1		0.0	0.0	
6		0.0	0.0	13	441	821	186	59	2.4		0.0	0.0	
7		0.0	0.0	12	1,650	1,110	179	53	0.5		0.0	0.0	
8		0.0	0.0	11	1,420	1,800	163	47	2.4		0.0	0.0	
9		0.0	1.8	306	661	1,040	152	48	0.4		0.0	0.0	
10	N	0.0	3.7	1,500	2,240	600	151	45	0.0	N	0.0	0.0	
11	O	0.0	2.2	664	3,280	679	142	35	0.1	O	0.0	0.0	
12		0.0	2.4	3,460	4,760	536	129	31	1.6		0.0	0.0	
13		0.0	1.3	1,570	2,420	462	142	31	2.5		0.0	0.0	
14		0.0	0.9	645	1,570	407	266	34	2.0		0.0	0.0	
15	F	16	0.5	432	1,750	361	168	20	1.7	F	0.0	0.0	
16	L	60	0.2	2,480	1,050	334	133	18	0.0	L	0.0	0.0	
17		93	1.0	3,350	699	315	123	14	0.0		0.0	0.6	
18	O	47	115	2,380	552	298	177	7.9	0.0	O	0.0	0.9	
19		24	148	2,500	472	280	153	3.5	0.0		0.0	0.0	
20	W	15	171	964	408	779	130	7.8	0.0	W	0.0	0.0	
21		12	89	584	352	548	115	4.1	0.0		0.0	0.0	
22		7.2	76	447	307	866	107	3.4	0.0		0.0	0.0	
23		4.4	139	356	266	577	89	5.3	0.0		0.0	0.0	
24		1.1	102	298	246	471	90	6.8	0.0		0.0	0.0	
25		0.1	97	365	231	387	89	12	0.0		0.0	0.0	
26		0.0	67	426	258	337	79	14	0.0		0.0	0.0	
27		0.0	52	325	875	314	70	19	0.0		0.0	0.0	
28		0.0	51	266	3,120	309	65	20	0.0		0.0	0.0	
29		0.0	43	235		271	62	22	0.0		6.6	0.0	
30		0.0	34	945		285	60	20	0.0		5.0	0.0	
31			29	699		327		18			3.7		
MEAN		9.3	39.6	817	1,115	617	147	27.8	2.4		0.5	0.3	
MAX.		93	171	3,460	4,760	1,800	296	59	16		6.6	3.0	
MIN.		0.0	0.0	11	231	271	60	3.4	0.0		0.0	0.0	
AC. FT.		555	2,430	50,260	61,920	37,910	8,770	1,710	146		30	16	

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.		DAY	TIME
226											163,800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 14 48	121 13 03	NE 32 5N 7E	24,000	15.28	4-3-1958	OCT 26-SEPT 33 OCT 44-DATE	OCT 26-SEPT 33 OCT 44-DATE	1944	1945	55.83 52.83	USCGS USCGS

Station located below county road bridge, 4 miles east of Galt. Tributary to Mokelumne River. Records furnished by U. S. Geological Survey. Drainage area is 329 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	801580	DEER CREEK NEAR SLOUGHHOUSE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	1.3	15	74	220	38	9.1*	0.4	0.0	0.0	0.0	1
2	0.0	0.0	1.4	13	53	56	32	8.2	1.5	0.0	0.0*	0.0	2
3	0.0*	0.0	1.5	10	76	141	29	7.5	1.8	0.0*	0.0	0.0	3
4	0.0	0.0	1.6	9.8	192	231	26	7.3	1.4	0.0	0.0	0.0	4
5	0.0	0.0	2.0	8.8	68	78	22	9.8	0.7	0.0	0.0	0.0*	5
6	0.0	0.3	3.1	9.2	98	221 *	21	9.7	0.4	0.0	0.0	0.0	6
7	0.0	1.7	8.2	8.8	283	156	20	7.2	0.2	0.0	0.0	0.0	7
8	0.0	1.0	25	15	137	315	16	6.1	0.0	0.0	0.0	0.0	8
9	0.0	1.3	11	645	70	117	15	5.6	0.0	0.0	0.0	0.0	9
10	0.0	2.2	6.7	362	457	75	16	5.1	0.0	0.0	0.0	0.0	10
11	0.0	50	4.8	1,080	723	139	14	4.6	0.0	0.0	0.0	0.0	11
12	0.0	23	4.0	1,430 *	450	58	14	4.7	0.0	0.0	0.0	0.0	12
13	0.0	7.4	3.5	339	274	47	15	3.5	0.0	0.0	0.0	0.0	13
14	0.0	37	3.7	161	252	40	29	2.8	0.0	0.0	0.0	0.0	14
15	0.0	30 *	3.5	112	191	35	17	2.4	0.0	0.0	0.0	0.0	15
16	0.0	230	3.4	1,790	161	32	14	2.2	0.0	0.0	0.0	0.0	16
17	0.0	71	23	468	141	30	17	1.9	0.0	0.0	0.0	0.0	17
18	0.0	21	44	716	110	29	38	1.5	0.0	0.0	0.0	0.0	18
19	0.0	10	87	283	89	27	19	1.2	0.0	0.0	0.0	0.0	19
20	0.0	6.5	43	139	81	164	14	1.0	0.0	0.0	0.0	0.0	20
21	0.0	4.7	29	109	69	147	11	1.2	0.0	0.0	0.0	0.0	21
22	0.0	3.7	57	65	64	160	9.9	1.6	0.0	0.0	0.0	0.0	22
23	0.0	3.0	40	50	58	60	10	1.6	0.0	0.0	0.0	0.0	23
24	0.0	2.5	81	44	55	48	12	1.4	0.0	0.0	0.0	0.0	24
25	0.0	2.1	40	123	50	42	10	1.3	0.0	0.0	0.0	0.0	25
26	0.0	1.8	30	144	74	39	9.5	1.7	0.0	0.0	0.0	0.0	26
27	0.0	1.6	24	56	252	39	9.8	1.6	0.0	0.0	0.0	0.0	27
28	0.0	1.5	40	48	601	39	9.1	1.3	0.0	0.0	0.0	0.0	28
29	0.0	1.4	27	44		32	9.6	1.1	0.0	0.0	0.0	0.0	29
30	0.0	1.3	18	233		31	10	0.8	0.0	0.0	0.0	0.0	30
31	0.0		18	135		53		0.4		0.0	0.0		31
MEAN	0.0	17.2	22.1	279	185	93.6	17.6	3.7	0.2	0.0	0.0	0.0	MEAN
MAX.	0.0	230	87.0	1,790	723	315	38.0	9.8	1.8	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	1.3	8.8	50.0	27.0	9.1	0.4	0.0	0.0	0.0	0.0	MIN.
AC. FT.		1023	1360	17188	10320	5754	1045	229	13				AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- = - END *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
51.0	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	36932
	4600	11.34	01	16	1515	0.0	5.70	10	01	0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 33 06	121 06 30	NW 16 8N 8E	6,560 E	12.86	10-13-1962	NOV 1959-DATE	NOV 1959-DATE	1959		0.00	LOCAL

Station located 0.2 mile above Scott Road Bridge, 5.9 miles northeast of Sloughhouse. Tributary to Cosumnes River. Drainage area is 46.0 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B01125	COSUMNES RIVER AT MCCONNELL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	7.3	34	175	1,440	3,650	1,130	971	344	1.0	0.0		1
2	0.0	5.2	33	156	1,130	2,170	1,020	872	353	2.5	0.0		2
3	0.0	0.9	32	146	989	1,820	920	851	294	0.0	0.0		3
4	0.0	11	32	142	1,400	3,180	850	853	264	0.0	0.0		4
5	0.0	51	38	126	1,410	2,460	817	891	228	0.0	0.0		5
6	0.0	109	69	104	1,160	2,010	816	777	212	0.0	0.1		6
7	0.0	65	63	109	2,050	2,560	842	707	192	0.0	0.0		7
8	0.0	42	67	108	2,830	2,710	880	701	173	0.0	0.0		8
9	0.0	36	71	487	1,810	2,570	904	719	153	0.0	4.2		9
10	0.0	47	59	3,130	3,240	1,660	968	738	139	0.0	2.9	N	10
11	0.0	75	47	2,030	5,890	2,060	1,010	762	131	0.0	0.0	O	11
12	0.0	117	45	8,800	6,440	1,890	1,060	813	113	0.0	0.0		12
13	0.0	104	49	8,880	3,770	1,610	1,100	860	104	0.0	0.0		13
14	0.0	85	45	3,160	2,780	1,460	1,240	859	95	0.0	0.0		14
15	0.0	133	41	1,790	3,460	1,320	1,110	863	93	0.0	0.0	F	15
16	0.0	390	45	4,210	2,230	1,220	1,050	846	84	0.0	0.0	L	16
17	0.0	691	47	11,400	1,770	1,150	992	886	76	0.0	0.0		17
18	9.9	336	476	5,770	1,530	1,100	1,100	873	73	0.0	0.0	O	18
19	162	172	717	6,790	1,360	1,040	1,060	804	62	0.0	0.0		19
20	115	117	929	3,040	1,220	1,660	972	736	59	0.0	0.0	W	20
21	17	87	541	1,980	1,130	1,740	896	675	54	0.0	0.0		21
22	13	74	411	1,620	1,060	2,280	850	599	47	0.0	0.0		22
23	9.7	61	688	1,300	994	1,630	845	545	33	0.0	0.0		23
24	7.7	54	568	1,120	952	1,340	881	527	42	0.0	0.0		24
25	5.6	47	543	1,090	970	1,210	951	510	51	0.0	0.0		25
26	4.7	43	380	1,250	966	1,140	1,000	501	43	0.0	0.0		26
27	2.2	40	297	1,040	2,000	1,120	1,090	434	33	0.0	0.0		27
28	0.0	39	272	860	5,850	1,140	1,150	394	10	0.0	0.0		28
29	0.0	37	275	810		1,070	1,160	378	1.0	0.0	0.0		29
30	0.0	35	229	2,050	990	990	1,090	365	2.0	0.0	0.0		30
31	4.6		192	1,850		1,100		357		0.0	0.0		31
MEAN	11.3	104	237	2,436	2,208	1,744	992	699	119	0.1	0.2		MEAN
MAX.	162	691	929	11,400	6,440	3,650	1,240	971	353	2.5	4.2		MAX
MIN.	0.0	0.9	32	104	952	990	816	357	1.0	0.0	0.0		MIN.
AC. FT.	697	6,170	14,550	149,800	122,600	107,200	59,020	42,980	7,060	6.9	14		AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM				MINIMUM				TOTAL		
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
705	15,800	45.35	1	17	0730	0.0					510,200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 21 29	121 20 34	SW 20 6N 6E	54,000	46.26	12-23-1955	OCT 1941-DATE	JAN 31-May 40 #	1931		0.00	USED
							OCT 41-DATE				

Station located on U. S. Highway 99 Bridge, 0.2 mile south of McConnell, 7.0 miles north of Galt. Maximum discharge of record listed is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 724 square miles.

Flood season only.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A00020	MORRISON CREEK NEAR SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.4	6.9	6.9	5.8	23	94	6.7	7.3	7.6	4.4	7.7	4.3	1
2	7.0	6.3	6.6	7.9	20	44	8.1	7.4	4.6	6.1	7.1	4.0	2
3	7.5	13	7.6	8.7	34	69	8.2	7.7	4.8	6.1	7.3	6.1	3
4	7.2	25	7.4	8.5	121	137	8.6	8.0	7.5	5.1	5.2	6.4	4
5	7.2	8.2	18	8.7	45	55	8.5	4.4	8.2	6.8	4.4	6.1	5
6	7.5	4.9	14	8.5	99	70	8.5	4.3	8.3	6.8	6.4	5.9	6
7	5.6	17	11	8.3	94	77	5.6	6.9	7.9	5.0	7.2	6.1	7
8	5.2	7.5	8.0	59	50	359	5.0	7.7	8.8	4.4	7.1	4.4	8
9	14	7.2	6.4	262	71	110	7.4	7.9	6.0	7.8	6.8	4.0	9
10	6.4	88	8.3	220	350	45	8.7	7.7	4.7	7.8	7.1	6.0	10
11	65	121	9.5	344	456	33	9.1	8.2	7.0	8.3	4.7	6.2	11
12	20	30	8.8	592	153	26	8.6	5.4	7.9	7.6	3.9	6.4	12
13	12	55	8.6	200	68	18	9.5	4.8	7.9	7.8	6.5	5.8	13
14	9.8	77	8.4	72	91	15	9.6	7.6	8.2	5.8	7.7	6.0	14
15	7.8	111	8.2	55	94	13	6.3	7.9	9.9	5.8	8.6	4.6	15
16	8.0	133	33	592	43	12	6.9	8.5	6.4	7.3	7.0	4.0	16
17	8.2	58	49	404	27	9.2	6.2	7.7	4.8	7.8	7.2	6.0	17
18	7.8	24	26	724	19	8.8	6.4	8.1	8.5	7.8	4.7	6.2	18
19	7.8	15	30	375	17	40	6.2	4.6	11	7.6	4.0	6.0	19
20	7.5	12	20	139	19	45	3.8	4.1	11	7.6	6.4	6.2	20
21	4.4	10	13	101	22	56	4.2	7.6	11	5.6	7.0	6.0	21
22	3.6	8.7	9.2	64	18	46	4.6	6.9	10	4.6	6.9	4.5	22
23	5.8	6.1	8.2	41	16	21	7.5	7.8	5.8	7.4	6.8	20	23
24	6.8	5.3	12	31	27	12	7.5	7.3	5.0	8.4	7.0	6.2	24
25	7.8	5.1	8.7	49	13	9.4	8.1	7.3	8.3	8.6	4.5	6.2	25
26	7.2	4.6	9.2	46	79	11	8.3	7.4	8.6	8.3	4.0	6.4	26
27	7.2	7.1	9.5	32	420	11	7.4	4.3	7.9	7.6	6.0	6.1	27
28	5.8	7.3	9.6	27	606	11	4.5	5.2	8.2	5.3	6.2	6.0	28
29	5.4	7.4	9.1	30	10	9.1	4.3	7.2	8.2	4.5	5.9	4.6	29
30	6.5	7.3	6.9	33	19	19	6.7	7.7	5.4	6.9	5.8	4.2	30
31	7.0		5.5	27	10	10		7.4		8.5	6.0		31
MEAN	9.5	29.6	12.8	148	111	48.3	7.0	6.8	7.6	6.8	6.2	6.0	MEAN
MAX.	65	133	49	724	606	359	9.6	8.5	11	8.6	8.6	20	MAX.
MIN.	3.6	4.6	5.5	5.8	13	8.8	3.8	4.1	4.6	4.4	3.9	4.0	MIN.
AC. FT.	584	1,760	787	9,080	6,140	2,970	419	421	455	415	383	359	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
32.8	1,380	7.66	2	27	1830						23,770

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. - M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 29 55	121 27 06	SE 32 8N 5E	1,610	8.53	1-26-1969	JULY 1959-DATE	JULY 1959-DATE	1959	1960	8.15	USCGS
								1960	1965	10.31	USCGS
								1965	DATE	7.60	USCGS

Station located 750 feet above Florin Road in southeast Sacramento. Tributary to Snodgrass Slough via Beach and Stone Lakes. Records furnished by U. S. Geological Survey. Drainage area is 48.6 square miles.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	3,951		0.0	0.0	764	755	752	4,192	4,623	4,592	4,654	4,048	
2	3,919		0.0	0.0	540	760	751	4,184	4,583	4,567	4,658	3,982	
3	3,839		0.0	0.0	0.0	746	800	4,144	4,609	4,590	4,699	3,895	
4	3,963		0.0	0.0	0.0	754	970	4,209	4,635	4,556	4,663	3,945	
5	3,961		0.0	0.0	0.0	752	1,616	4,221	4,586	4,608	4,651	3,966	
6	3,987		0.0	0.0	3.0	754	1,610	4,210	4,588	4,617	4,662	3,601	
7	3,970		0.0	0.0	0.0	754	1,620	4,220	4,582	4,614	4,664	3,542	
8	4,003		10	0.0	0.0	754	1,632	4,194	4,571	4,646	4,741	3,865	
9	3,973		0.0	0.0	946	752	1,704	4,192	4,569	4,664	4,721	3,864	
10	3,982		0.0	1,285	1,418	748	1,961	4,483	4,567	4,591	4,715	3,874	1
11	3,984	N	0.0	1,727	1,396	702	2,082	4,585	4,587	4,671	4,639	3,870	1
12	3,995		0.0	1,731	1,279	737	2,201	4,593	4,419	4,675	4,624	3,807	1
13	3,999	O	0.0	1,727	928	562	2,381	4,598	4,609	4,684	4,554	3,773	1
14	3,980		0.0	1,725	831	440	2,377	4,620	4,611	4,713	4,523	3,881	1
15	3,977		0.0	2,068	855	434	2,377	4,622	4,601	4,686	4,533	3,884	1
16	3,785	F	0.0	2,531	800	434	2,482	4,606	4,606	4,670	4,540	3,887	1
17	3,368		0.0	2,523	757	432	2,583	4,598	4,591	4,660	4,559	3,748	1
18	3,339	L	0.0	2,539	593	435	2,733	4,619	4,591	4,661	4,524	3,758	1
19	3,338		0.0	2,538	603	472	2,730	4,608	4,589	4,673	4,533	3,747	1
20	3,293	O	4.0	2,509	645	550	2,823	4,595	4,574	4,662	4,529	3,763	2
21	3,291	W	0.0	2,508	660	543	2,816	4,591	4,594	4,652	4,462	3,754	2
22	3,282		0.0	2,518	645	726	2,996	4,590	4,599	4,649	4,465	3,746	2
23	3,306		0.0	2,530	632	684	3,298	4,573	4,589	4,650	4,464	3,762	2
24	3,285		0.0	2,534	607	657	3,474	4,598	4,601	4,652	4,462	3,761	2
25	3,325		0.0	2,534	603	642	3,649	4,590	4,600	4,578	4,183	3,747	2
26	3,274		0.0	2,384	642	530	3,713	4,605	4,612	4,634	4,284	3,765	2
27	3,289		0.0	2,395	790	533	3,724	4,583	4,620	4,659	4,285	3,742	2
28	2,234		0.0	2,395	722	567	3,971	4,584	4,616	4,659	3,993	3,738	2
29	1,962 A		0.0	1,683		752	4,169 B	4,586	4,603	4,648	4,073	3,735	2
30	520		0.0	467		753	4,196	4,612	4,603	4,634	4,090	3,742	3
31	60		0.0	770		750		4,624		4,642	4,064		3
MEAN	3,369		0.4	1,472	631	641	2,473	4,478	4,591	4,641	4,491	3,806	ME
MAX.	4,003		10	2,539	1,418	755	4,196	4,624	4,635	4,713	4,741	4,048	M
MIN.	60		0.0	0.0	0.0	432	751	4,144	4,419	4,556	3,993	3,542	M
AC. FT.	207,307		28	90,489	35,027	39,400	146,813	275,367	273,183	285,340	276,125	226,500	AC

A - 25 Hour-Day
 B - 23 Hour-Day

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
2,563											1,855,579

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 45	121 35 05	SW 31 1S 4E				JUNE 1951-DATE	JUNE 1951-DATE	1951		0.00	USCGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into the canal. Records are furnished by the U. S. Bureau of Reclamation.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B95910	CONTRA COSTA CANAL NEAR OAKLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	129	88	66	64	70	71	64	130	194	219	253	203	1
2	149	89	69	61	71	66	68	128	170	219	250	201	2
3	131	94	63	68	66	67	66	125	175	219	252	172	3
4	148	96	65	65	67	69	70	119	175	212	227	194	4
5	119	96	66	68	63	61	74	124	177	229	221	203	5
6	126	96	70	64	54	63	82	188	173	221	190	194	6
7	124	90	70	69	68	63	75	168	189	213	224	197	7
8	125	86	69	61	72	67	81	184	196	213	219	191	8
9	122	86	64	57	63	64	88	193	198	224	218	182	9
10	122	84	66	56	60	62	94	191	197	238	212	188	10
11	140	82	66	60	55	62	93	198	194	251	214	188	11
12	113	85	71	53	63	64	96	198	189	250	214	190	12
13	112	80	71	57	60	67	90	204	188	249	214	197	13
14	102	79	72	58	64	70	78	202	188	249	217	199	14
15	111	77	71	60	66	81	79	204	186	247	218	190	15
16	106	73	68	56	62	68	79	204	181	246	215	179	16
17	96	71	62	59	64	62	82	205	176	240	213	171	17
18	106	62	70	56	63	60	83	210	173	243	212	168	18
19	108	63	74	64	64	64	86	214	194	229	211	158	19
20	104	66	71	65	62	65	80	216	198	234	210	152	20
21	106	65	76	64	63	63	82	220	199	220	210	145	21
22	108	66	76	63	67	68	86	218	204	225	219	137	22
23	114	57	73	61	68	66	79	218	199	228	228	132	23
24	109	60	63	65	67	62	48	213	197	229	219	130	24
25	103	58	62	65	64	62	78	211	202	230	214	132	25
26	98	57	59	66	63	75	78	196	214	238	219	130	26
27	93	60	66	65	57	68	90	197	217	236	203	126	27
28	93	64	63	66	66	74	101	202	227	235	208	134	28
29	94 A	64	63	72	72	74	120 B	207	226	240	205	142	29
30	86	61	61	72	72	68	140	204	221	240	203	92	30
31	84	59	59	70	70	63	63	202	202	251	205	205	31
MEAN	112	75.2	67.2	62.9	64	66.4	83.7	190	194	233	217	167	MEAN
MAX.	149	96	76	72	72	81	140	220	227	251	253	203	MAX.
MIN.	84	57	59	53	54	60	64	119	170	212	190	92	MIN.
C. FT.	6,912	4,473	4,136	3,868	3,554	4,084	4,969	11,689	11,538	14,315	13,363	9,951	AC. FT.

A - 25-Hour Day
 B - 23-Hour Day

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
128							92,852

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 59 45	121 42 00	NE 25 2N 2E				FEB 1950-DATE	FEB 50-DEC 52	1950	1952	121.72	USCGS

Station located at Pumping Plant No. 1, 0.7 mile east of Oakley, 2.6 miles northwest of Knightsen. Water is diverted from Sacramento-San Joaquin Delta by way of Old River, Rock Slough, and a dredged channel. A series of 4 pumping plants lift the water about 115 feet into canal. Recording flow meters on pumps. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B95920	CALIFORNIA AQUEDUCT AT DELTA PUMPING PLANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	5,950	3,319	3,069	1,518	418	1,150	700	831	1,869	5,180	2,268	3,797	
2	2,150	3,320	3,629	1,079	418	829	231	829	3,173	1,877	2,268	5,600	
3	2,150	3,320	4,480	1,086	698	1,389	132	829	5,180	1,877	2,499	1,868	
4	2,140	4,031	3,069	1,085	1,120	2,240	131	741	1,875	1,877	3,843	1,234	
5	2,149	4,830	3,068	1,080	506	908	131	867	1,878	1,865	6,300	1,212	
6	2,147	3,220	3,069	1,814	648	1,232	283	3,360	1,868	1,865	2,255	1,235	
7	3,635	3,320	3,043	2,940	0.0	1,232	1,264	1,315	1,642	3,175	2,268	1,236	
8	5,950	3,320	2,977	1,114	0.0	1,234	700	1,468	1,543	5,180	2,268	2,076	
9	2,145	3,320	3,631	1,234	93	1,061	385	829	3,164	1,855	2,268	3,360	
10	2,147	3,319	4,480	1,233	698	787	741	829	5,180	1,770	2,267	1,150	
11	2,147	4,050	3,071	1,234	1,120	2,240	417	829	1,877	1,879	3,798	830	
12	2,146	5,180	3,069	1,314	418	829	325	1,300	1,872	1,879	5,600	829	
13	2,147	3,320	3,066	2,754	417	741	29	1,120	1,877	1,878	2,070	830	
14	3,635	3,317	3,069	4,480	325	325	282	606	1,870	3,170	2,276	819	
15	5,950	2,929	3,069	1,553	0.0	0.0	1,120	1,359	1,877	5,180	2,254	1,390	
16	2,132	1,875	3,627	1,234	0.0	0.0	325	1,350	3,172	1,880	2,172	2,240	
17	2,150	2,528	4,480	1,234	0.0	0.0	182	1,357	5,180	1,879	2,267	914	
18	2,151	3,899	3,069	1,234	0.0	0.0	915	1,359	1,877	1,876	3,808	1,234	
19	2,138	5,951	3,068	1,152	93	0.0	1,234	2,312	1,875	1,875	5,600	1,235	
20	2,148	2,442	2,888	1,388	418	0.0	1,234	4,060	1,878	1,877	2,073	1,164	
21	3,644	2,681	2,333	2,240	419	99	1,989	1,667	1,877	3,172	2,267	1,236	
22	5,950	3,067	2,747	916	418	417	2,240	1,759	1,877	5,180	2,268	1,901	
23	2,148	4,480	3,629	1,153	418	354	829	1,954	3,172	1,879	2,268	1,120	
24	2,140	3,070	4,480	742	695	244	829	1,878	5,180	1,880	2,268	445	
25	2,147	3,629	4,480	418	1,120	700	820	1,877	1,877	1,953	3,834	546	
26	2,147	4,480	3,071	417	593	202	816	3,140	1,878	2,268	6,300	693	
27	2,147	3,071	3,071	698	1,234	0.0	829	4,830	1,877	2,268	2,268	1,358	
28	3,627	3,070	3,071	1,120	1,225	93	1,389	1,780	1,877	3,843	2,246	1,877	
29	6,198	3,070	3,069	506	417	417	2,147	1,878	1,877	6,300	2,171	3,171	
30	1,928	3,070	3,629	829	354	354	829	1,879	3,172	2,267	2,268	5,180	
31	1,234		4,480	741	246	246		1,879		2,267	2,268		
MEAN	2,923	3,483	3,389	1,340	483	623	783	1,679	2,513	2,683	2,931	1,726	
MAX.	6,198	5,951	4,480	4,480	1,234	2,240	2,240	4,830	5,180	6,300	6,300	5,600	
MIN.	1,234	1,875	2,333	417	0.0	0.0	29	606	1,543	1,855	2,070	445	
AC. FT.	179,737	207,269	208,366	82,390	26,800	38,326	46,567	103,282	149,535	164,967	180,195	102,705	

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	
2,058									1,490,139

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 48 02	121 37 09	SE 35 1S 3E				OCT 1968-DATE					

Delta Pumping Plant located 4.5 miles south of Byron. Discharge computed from records of operation of pumps. Water diverted from Sacramento-San Joaquin Delta via Clifton Court Forebay and lifted about 240 feet into the canal. Prior to November 1969, water was diverted via Italian Slough.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	B89100	MARSH CREEK NEAR BYRON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.8	2.3	22	79	24	5.8	0.9				1
2		0.0	0.8	2.3	20	64	21	5.6	0.8				2
3		0.0	0.7	2.2	22	82	19	5.8	0.7				3
4		0.0	0.8	2.0	33	79	18	5.6	0.4				4
5		0.0	1.2	1.9	28	60	18	5.2	0.2				5
6		0.0	4.8	1.9	209	117	17	5.0	0.1				6
7		0.0	3.5	1.8	129	84	15	5.6	0.0				7
8		0.0	2.9	8.9	74	90	15	5.4	0.0				8
9		0.0	1.9	224	63	70	15	5.6	0.0	N	N	N	9
10	N	0.0	1.4	94	196	66	14	5.6	0.0				10
11	O	0.0	1.3	84	169	71	12	5.4	0.0	O	O	O	11
12		0.0	1.1	175	137	57	12	5.1	0.0				12
13		0.0	1.1	91	115	52	13	4.4	0.0				13
14		59	1.0	50	114	45	13	4.5	0.0	F	F	F	14
15	F	37	1.0	34	90	41	12	5.3	0.0				15
16	L	80	1.1	257	75	39	12	5.4	0.0	L	L	L	16
17		25	3.4	170	66	37	11	4.7	0.0	O	O	O	17
18	O	13	8.7	397	57	34	9.9	4.8	0.0				18
19		8.8	8.5	156	51	43	9.6	3.9	0.0	W	W	W	19
20	W	5.8	8.6	84	47	67	8.9	2.8	0.0				20
21		3.8	7.0	77	43	58	8.1	3.2	0.0				21
22		3.0	8.2	49	39	49	7.9	3.0	0.0				22
23		2.3	8.6	37	36	39	7.6	2.7	0.0				23
24		1.9	6.5	30	37	35	7.2	3.0	0.0				24
25		1.5	5.4	31	33	34	6.8	2.4	0.0				25
26		1.3	4.7	27	54	33	6.5	1.8	0.0				26
27		1.2	4.6	23	189	31	6.2	2.6	0.0				27
28		1.0	4.1	20	144	28	5.9	1.9	0.0				28
29		.8	3.3	22		26	6.4	0.9	0.0				29
30		.8	3.0	40		27	5.8	0.9	0.0				30
31			2.7	25		31		1.0					31
AN		8.2	3.6	71.6	81.9	53.8	11.9	4.0	0.1				MEAN
AX.		80	8.7	397	209	117	24	5.8	0.9				MAX.
IN.		0.0	0.7	1.8	20	26	5.8	0.9	0.0				MIN.
..FT.		488	223	4,400	4,550	3,310	710	248	6.1				AC.FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
19.2											13,930

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 52 25	121 43 35	SW 2 1S 2E	3,880	11.62	1-31-1963	FEB 1953-DATE	FEB 1953-DATE	1953		177.87	USCGS

Station located 40 feet below highway bridge, 1.2 miles above Marsh Creek Dam, 5.0 miles west of Byron. Station affected by backwater from Marsh Creek Reservoir. Maximum gage height of record is 12.98 feet on December 23, 1955. Tributary to San Joaquin River. Records furnished by U. S. Geological Survey. Drainage area is 42.6 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	012200	BIDWELL CREEK NEAR FORT BIDWELL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.8	8.0	9.0	14	8.3	11	13	72	57	12	5.2	4.2	1
2	6.8*	7.9	9.0	15	8.0	11	12	71	51	12	5.1	4.2	2
3	6.8	9.9	7.1	12	7.7	11	12	74	47	11	5.0	4.2	3
4	6.7	14	6.1	14	7.7	11	14	75	41	11	4.9	4.1	4
5	6.7	9.4	5.0	25	7.4	10	17	68	37	11	4.8	4.0	5
6	6.7	8.5	6.1	14	7.1	10	22	64	35	10	4.8	4.0	6
7	6.8	8.5	7.1	15	6.8	9.9	24	65	33	10	4.7	4.0	7
8	6.7	8.4	5.0	18	7.1	9.9	23	70	32	9.8	4.7	4.0	8
9	7.1	7.8	5.0	18	7.4	10	27	75	30	9.5	4.7*	4.1	9
10	9.0	8.5	5.0	14	7.4	13	32	74	28	9.2	4.5	4.2	10
11	9.0	8.2	5.0	13	7.7	13	39	73	26	8.9	4.5	4.1	11
12	8.8	7.6	6.1	16	8.0	12	45	78	25	8.7	4.4	4.0	12
13	9.1	8.1	6.1	19	8.3	12	45	102	24	8.5	4.3	4.0	13
14	8.8	8.4	5.0	17	8.3	11	38	134	23	8.4	4.3	4.0	14
15	8.8	8.1	6.1	16	8.6	11	34	141	22	8.2	4.2	4.0	15
16	8.3	8.4	8.0	18	9.0	11	34	143	21	7.7	4.1	4.0	16
17	8.2	7.6	10	16	9.0	11	38	143	20	7.6	4.2	4.0	17
18	7.9	7.9	14	15	9.4	11	34	145	19	7.4	4.2	4.0	18
19	7.9	8.1	14	13	10	11	31	134	18	7.5	4.1	4.2	19
20	7.6	7.9	20	16	9.6	11	29	115	17	7.5	4.1	5.4	20
21	7.4	8.8	25	12	9.8	11	28	98	17	7.4	4.0	5.1	21
22	7.4	9.6	29	17	10	11	32	89	17	7.1	4.1*	4.8	22
23	7.3	9.6	21	21	10	11	40	86	16	6.9	4.1	5.3	23
24	7.1	9.6	19	13	11	11	48	107	15	6.5	4.2	6.8	24
25	7.1	9.3	17	10	11	13	57	98	15	6.2	4.3	6.8	25
26	7.1	12	16	11	11	14	69	86	14	6.0	4.3	5.6	26
27	7.1	12	15	15	11	14	82	74	14	5.9	4.2	5.2	27
28	7.4	10	15	9.3	11	14	88	67	13	5.9	4.2	5.0	28
29	7.0	9.0	19	9.0		13	79	63	13	5.7	4.1	4.8	29
30	6.9	9.0	19	9.0		13	74	61	13	5.5	4.1	4.7	30
31	8.2		12	8.6		13		61		5.4	4.2		31
MEAN	7.6	9.0	11.8	14.6	8.8	11.6	38.7	90.5	25.1	8.2	4.4	4.6	MEAN
MAX.	9.1	14.0	29.0	25.0	11.0	14.0	88.0	145	57.0	12.0	5.2	6.8	MAX
MIN.	6.7	7.6	5.0	8.6	6.8	9.9	12.0	61.0	13.0	5.4	4.0	4.0	MIN
AC. FT.	465	536	725	898	491	712	2301	5566	1494	505	271	271	AC FT.

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- - E AND -

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
19.7	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	14234
	157	3.90	05	18	1800	4.0	3.05	08	15	2315	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 52 57	120 10 26	SE6 46N 16E	682	5.64	12/24/64	APR 55-OCT 57 8 MAY 58-DATE	APR 55-OCT 57 8 MAY 58-DATE	1958		3.30	LOCAL

Station located E of New Pine Creek-Fort Bidwell Highway, 2.0 mi. NW of Fort Bidwell. Tributary to Upper Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 25.6 sq. mi.

8 - Irrigation season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	015150	CEDAR CREEK NEAR CEDARVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.8	0.7	1.9	4.3	5.0	5.3	8.8	20	6.8	1.6	0.4	0.4	1
2	0.7*	0.7	1.8	4.3	4.7	5.6	9.3	19	6.0	1.5	0.4	0.4	2
3	0.6	0.6	1.7	4.4	5.1	5.8	9.5	19	5.5	1.4	0.4	0.4	3
4	0.6	1.8	1.5	4.1	4.9	5.7	10	20	5.1	1.4*	0.3	0.3	4
5	0.5	2.2	1.3	4.4	4.8	5.5	13	20	4.7	1.3	0.3	0.3	5
6	0.5	1.3	1.6	4.5	4.8	5.5	17	19	4.4*	1.3	0.3	0.3	6
7	0.5	1.0	1.8	4.2	4.5*	5.4	17	19	4.1	1.2	0.3	0.4	7
8	0.5	1.0	2.1	4.3	4.0	5.3	18	18	3.9	1.1	0.3	0.4	8
9	0.6	0.9	2.3	4.3	3.9	5.4	21	18	3.7	1.1	0.3*	0.4	9
10	0.6	1.0	2.5	4.0	3.9	11	23	17	3.6	1.0	0.3	0.4	10
11	0.7	1.0	2.9	3.9	3.9	22	24	17	3.4	0.9	0.3	0.4	11
12	0.7	1.0	3.1	4.0	3.9	21	25	17	3.2	0.9	0.3	0.4*	12
13	0.8	1.0	3.3	4.0	3.7	20	24	17	3.2	0.9	0.2	0.3	13
14	0.7	1.1	3.4	4.2	3.8	19	23	17	3.3	0.8	0.2	0.3	14
15	0.7	1.2	3.7	4.4	3.9	18	22	18	3.1	0.8	0.3	0.4	15
16	0.7	1.2	4.0	4.4	3.7	17	22	17	3.0	0.7	0.2	0.4	16
17	0.7	1.2	4.2	4.6	3.7	17	25	17	3.1	0.8	0.3	0.3	17
18	0.7	1.2	4.4	4.6	3.4	16	23	17	2.9	0.8	0.3	0.3	18
19	0.7	1.3	4.8	4.8	3.1	15	22	16	2.6	0.7	0.3	0.4	19
20	0.6	1.2	4.9	4.8	3.2	14	19	14	2.4	0.6	0.2	1.1	20
21	0.6	1.1	5.1	4.9	3.5	14	18	12	2.2	0.7	0.2	0.7	21
22	0.6	1.1	5.5	5.1	3.7	13	20	11	2.1	0.7	0.2	0.5	22
23	0.6	1.1	5.7	5.1	4.0	12	21	11	2.2	0.7	0.3	1.1	23
24	0.6	1.1	5.9	5.3	4.5	11	23	14	2.1	0.6	0.3	1.1	24
25	0.6	1.1	6.1	5.3	4.6	11	23	13	1.9	0.6	0.4	0.8	25
26	0.6	1.7	6.3	5.5	4.6	11	25	11	1.8	0.5	0.4	0.6	26
27	0.5	2.7	6.5	5.5	4.8	10	26	9.6	1.7	0.5	0.4	0.5	27
28	0.5	2.7	7.3	5.7	5.0	9.7*	24	8.8	1.6	0.5	0.4	0.5	28
29	0.6	2.5	5.3	5.7		8.9	23	8.0	1.5	0.4	0.4	0.5	29
30	0.6	2.2	5.1	6.1		9.0	22	7.7	1.5	0.4	0.3	0.5	30
31	0.6		5.0	5.5		8.8		7.7		0.4	0.3		31
AN.	0.6	1.3	3.9	4.7	4.2	11.5	20.0	15.2	3.2	0.9	0.3	0.5	MEAN
MX.	0.8	2.7	7.3	6.1	5.1	22.0	26.0	20.0	6.8	1.6	0.4	1.1	MAX.
MIN.	0.5	0.6	1.3	3.9	3.1	5.3	8.8	7.7	1.5	0.4	0.2	0.3	MIN.
FT.	38	79	240	290	231	710	1191	932	192	53	19	29	AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
5.5	29	3.59	04	12	1700	0.2	2.35	08	13	1900	4005

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 31 48	120 11 15	SE6 42N 16E	81	5.43	1/23/70	MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL

Station located above Cedarville-Alturas Highway culvert, immediately W of Cedarville. Tributary to Middle Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 25 sq. mi.

TABLE B-5 (CONT.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	G17150	EAGLE CREEK AT EAGLEVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													ME
MAX.													M
MIN.													M
AC. FT.													AC

DATA INSUFFICIENT TO COMPUTE DISCHARGE

WATER YEAR SUMMARY

- E - ESTIMATED
- NR - NO RECORD
- * - DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
- # - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 18 40	120 07 27	SE23 40N 16E				MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL

Station located 0.6 mi. SW of Eagleville. Tributary to Middle Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is 6.36 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	031140	PINE CREEK AT EAGLE LAKE NEAR SUSANVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	28	45	0.5	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	27	35	0.0	0.0	0.0	0.0	2
3	0.0*	0.0	0.0	0.0	0.0	0.0	22	28	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	45	25	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	93	29	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	153	36	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	187	33	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	139	26 *	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	128	20	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	135	18	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	172	17	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	190	16	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	147	15	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	122	15	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	148	15	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	5.6	0.0	0.0	137	14	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	13	0.0	0.0	139 *	15 *	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	142	15	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	144	15	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	111	14	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	100	13	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	105	10	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	124	8.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	126	6.2	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	125 *	7.2	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	6.3	131	5.6	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	22	122	3.9	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	20	103	3.1	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	13	91	1.7	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	16	66	0.3	0.0	0.0	0.0	0.0	30
31	0.0*	0.0	0.0	0.0	0.0	22		1.4	0.0	0.0	0.0	0.0	31
AN	0.0	0.0	0.0	0.6	0.0	3.2	116	16.3	0.0	0.0	0.0	0.0	MEAN
MX.	0.0	0.0	0.0	13.0	0.0	22.0	190	45.0	0.5	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.3	0.0	0.0	0.0	0.0	MIN.
FT.				37		197	6946	1004	1				AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
- NO RECORD
- DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
11.3	240	4.34	04	07	0115	0.0	3.21	10	01	0000	8185

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 39 56	120 47 07	NEL 32N 10E	936	5.60	1/24/70	JUL 56-DATE	JUL 56-DATE	1970		0.00	LOCAL

Station located above mouth, 18 mi. NW of Susanville. Prior to October 1, 1969, gage located at site 1 mi. upstream at different datum. Tributary to Eagle Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 227 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	G61705	LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	1.0	2.4	2.8	4.7	10	37	32	28	12	0.7	1.6*	1.0	1
2	1.0	2.4*	3.1	5.7	13	29	31	27	11	0.8	1.6	1.0	2
3	1.0	2.6	3.4	4.5	16	25	29	22	6.8	0.5*	1.6	1.0	3
4	0.9*	7.1	2.6	3.0	18	21	28	20	3.8*	0.4	1.5	1.0	4
5	0.9	5.1	2.0	2.3	21	19	33	24	1.7	0.3	1.5	0.9	5
6	0.9	3.4	2.4	2.0	24	17	33	21	1.2	0.2	1.5	0.9	6
7	0.9	3.3	2.6	1.8	30	17	44	12	1.0	0.0	1.5	0.9	7
8	1.0	3.0	2.6	1.6	23	18	44	8.6	0.9	0.0	1.5	0.9	8
9	1.1	2.7	2.2	1.4	20	16	42	5.8	0.8	0.0	1.4	0.9	9
10	1.0	3.2	2.5	1.3	93	18	38	5.1	0.7	0.0	1.4	0.9	10
11	1.1	4.0	2.4	1.4	43	86	36	6.0	0.6	0.1	1.4	0.9	11
12	1.1	3.2	2.3	11	20	38	72	5.9	0.6	0.1	1.4	0.9	12
13	1.1	3.3	2.4	22	18	29	154	16	0.5	0.2	1.4	0.8*	13
14	1.2	6.5	2.4	18	16	26	87	21	0.5	0.3	1.3	0.7	14
15	1.2	4.4	2.5	15	16	22	60	12	0.4	0.3	1.3	0.7	15
16	1.3	4.6	2.8	53	15	21	52	8.9	1.3	0.4	1.3	0.7	16
17	1.8	3.8	3.6	10	14	21	47	4.9	3.0	0.4	1.3	0.7	17
18	2.4	3.2	4.0	12	13	23	45	13	0.3	0.5	1.3	0.7	18
19	2.0	3.4	4.9	8.5	12	23	47	28	0.2	0.5	1.2	0.8	19
20	2.3	3.0	5.1	6.4	12	23	47	23	1.5	0.6	1.2	0.8	20
21	1.7	2.7	5.5	7.3	13	23	48	17	3.3	0.6	1.2	0.8	21
22	1.6	3.3	5.6	6.1	13	23	40	15	3.1	0.7	1.2	0.8	22
23	1.7	2.4	5.8	6.2	12	24	42	14	3.4	0.7	1.2	0.8	23
24	1.7	2.9	5.9	9.9	14	26	42	13	3.1	0.8	1.1	0.9	24
25	1.7	3.1	7.1	10	16	27	37	13	2.3	0.9	1.1	0.9	25
26	1.7	3.2	7.0	8.7	17	27	28	11	1.7	1.0	1.1	0.9	26
27	1.9	3.2	7.5	6.9	23	28	30	8.4	1.6	1.1	1.1	0.9	27
28	1.9	3.1	5.4	8.1	90	30	30	6.4	2.2	1.1	1.1	0.9	28
29	1.9	2.8	4.5	8.0		31	31	4.8	1.4	1.2	1.1	1.0	29
30	1.9	2.7	5.4	12		30	30	4.3	0.8	1.3	1.0	1.0	30
31	2.0		5.4	12		30		8.7		1.5	1.0		31
MEAN	1.4	3.5	4.0	9.1	23.0	26.7	45.3	13.8	2.4	0.6	1.3	0.9	MEA
MAX.	2.4	7.1	7.5	53.0	93.0	86.0	154	28.0	12.0	1.5	1.6	1.0	MA
MIN.	0.9	2.4	2.0	1.3	10.0	16.0	28.0	4.3	0.2	0.0	1.0	0.7	MIN
AC. FT.	89	206	245	557	1279	1642	2696	849	142	34	80	52	AC F

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
= - E AND *

MEAN DISCHARGE	MAXIMUM			MINIMUM			TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME	DISCHARGE	GAGE HT.	MO. DAY TIME	ACRE FEET
10.9	450	3.88	02 10 1445	0.0	2.29	07 02 1900	7871

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 46 55	121 04 14	SW3 22N 17E	3520	9.16	1/24/70	OCT 70-DATE	OCT 70-DATE	1970		0.00	LOCAL

Station located at U. S. Highway 70 Bridge, 2 mi. west of Hallelujah Junction. Tributary to Honey Lake. State-discharge relationship affected by ice at times. Drainage area is approximately 100 sq. mi.

TABLE B-6
DIVERSIONS

This table includes diversion data on the Sacramento River, furnished by the U. S. Bureau of Reclamation, and on the Mokelumne River, furnished by the East Bay Municipal Utility District. The data are published as received from these agencies.

Additional diversion data not included in this table may be obtained from the Water Rights Division of the State Water Resources Control Board.

TABLE B-6 (Continued)
 DIVERSIONS -- FEATHER AND YUBA RIVERS
 October 1972 through September 1973

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET			
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.		
			<u>FEATHER RIVER</u>														
--NICOLAUS BRIDGE--	9.2																
Hamatami Brothers	9.75R	1-20 1-30									13	1,738	1,714	1,657	1,473	658	7,253
			<u>BEAR RIVER</u>														
Garden Highway Mutual Water Company	13.1R	2-20 1-24									590	3,705	3,404	3,530	2,820	774	14,823 ^a
Feather Water District b	15.2R	3-14	6								241	1,402	1,805	1,725	1,160	407	6,746
Plumas Mutual Water Company	17.5L	2-18									29	1,732	1,862	2,189	2,039	1,466	9,317 ^a
Tudor Mutual Water Company	18.4R	2-30 1-35										403	932	1,040	556	117	3,048
Feather Water District b	20.4R	4-26	2								106	2,555	3,488	3,774	2,450	1,007	13,382
Oswald Water District	21.4R	2-16										347	570	600	184	137	1,838
			<u>YUBA RIVER</u>														
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0 [#]																
--10TH STREET BRIDGE--	28.2																
City of Yuba City c	29.6R	3-20	237	170	197	156	132	162	333	594	698	768	711	500			4,658
Sutter Extension Water District d	38.1R	1-36 1-46 1-48							772	345	9,668	12,171	12,016	11,120	1,599		47,691
--HONCUT CREEK--	43.7L																
--FEATHER RIVER OUTLET AT THERMALITO AFTERBAY	58.2R																
--THERMALITO DIVERSION DAM--	65.6																
Western Canal Outlet at Thermalito Afterbay	19/3-18D**	Gravity	15,620	6,801	6,062	1,585				6,778	33,340	38,240	41,650	34,590	11,760		196,426
Richvale Canal Outlet at Thermalito Afterbay	19/3-18D**	Gravity	121							8,622	26,320	22,720	22,840	19,720	4,524		104,867
PG&E Outlet at Thermalito Afterbay	19/3-19E**	Gravity								243	993	577	645	523	65		3,046
Sutter-Butte Canal Outlet at Thermalito Afterbay	18/3-5B**	Gravity	15,480	6,266	351			1,539	44,680	99,770	80,750	87,710	77,910	42,730			457,186
--OROVILLE DAM--	70.4																
FEATHER RIVER, TOTAL DIVERSIONS			31,466	13,237	6,610	1,741	132	2,473	61,980	182,567	168,931	180,144	155,256	65,744			870,281

** Diversions are via Thermalito Afterbay. Figures represent North Townships, East Ranges, and Sections. Letters represent the 1/4-1/4 sections which are lettered from A through R, excluding I and O, similar to the numbering of sections within a township.
 # Station located on bridge at or near center of stream.

a Includes an undetermined amount of spill to river.
 b Records furnished by U. S. Bureau of Reclamation.
 c Records furnished by City of Yuba City.
 d Records furnished by Sutter Extension Water District.

			<u>YUBA RIVER</u>														
--HIGHWAY 99E BRIDGE--	0.0																
--DAGUERRE POINT DAM--	11.0																
Hallwood Irrigation District	11.0R	Gravity	4,390							8,614	18,290	16,167	15,116	13,823	7,628		84,028
Cordus Irrigation District	11.0R	Gravity	4,034							4,015	12,620	12,160	14,410	12,980	5,504		65,723
Browns Valley Irrigation District	11.7R	1-24 1-16 1-12 1-6	935							1,020	2,709	2,906	3,312	3,380	838		15,100
--DRY CREEK--	13.1R																
--DEER CREEK--	21.8L																
--ENGLEBRIGHT DAM--	22.8																
YUBA RIVER, TOTAL DIVERSIONS			9,359							13,649	33,619	31,233	32,838	30,183	13,970		164,851

Diversions for the irrigation period April through September are measured under a cooperative agreement between the Department and the Yuba County Water Agency.

TABLE B-6 (Continued)
MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF *

October 1972 through September 1973

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
--TOWER BRIDGE - SACRAMENTO--	0.0														
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L														
--AMERICAN RIVER--	1.1L														
Natomas Central Mutual Water Co.	2.15L		0						1	13	22	26	0	11	73
--STAGE STATION - SACRAMENTO RIVER AT SACRAMENTO WEIR	4.0R														
Natomas Central Mutual Water Co.	6.1L		0						674	2,176	1,793	1,900	1,754	865	9,162
Natomas Central Mutual Water Co.	7.5L		0						25	93	77	93	23	0	311
Robbins, Beatrice Clayton	10.25L		0						0	0	236	191	110	0	537
Hanks, C. A. and Sons	11.1R		0						0	203	161	84	28	0	476
Investment Operating Corp.	12.0R		0						421	9,588	9,819	7,159	5,462	830	33,279
Natomas Central Mutual Water Co.	14.1L		0						476	1,502	2,039	2,585	2,139	810	9,551
Latter Day Saints Church	15.1R		0						0	17	3	78	49	0	147
Natomas Central Mutual Water Co.	16.0L		0						1,993	9,065	8,421	5,318	7,222	3,016	35,035
Hershey, Davidella, et al	16.27R		0						0	0	0	0	0	0	0
Deseret Farms of California	16.62R		0						0	46	219	174	265	44	748
Deseret Farms of California	17.0R		0						0	0	0	17	1	0	18
--CROSS CANAL - RECLAMATION DISTRICTS 1000 AND 1001--	19.6L														
Pleasant Grove-Verona Mutual Water Company	(0.75N)a		0						0	0	0	0	0	0	0
Natomas Central Mutual Water Co.	(1.0S) a		0						1,062	3,634	3,403	3,541	3,289	857	15,786
Natomas Central Mutual Water Co.	(2.0S) a		0						2,698	9,259	8,081	9,054	7,592	2,428	39,112
Pleasant Grove-Verona Mutual Water Company	(3.3N) a		0						268	2,043	1,698	2,108	1,703	178	7,998
Pleasant Grove-Verona Mutual Water Company	(3.35N)a		0						0	0	0	0	0	0	0
Pleasant Grove-Verona Mutual Water Company	(3.45N)a		0						381	3,371	2,391	1,941	2,052	1,038	11,174
--FEATHER RIVER--	20.9L														
--SACRAMENTO SLOUGH--	21.2L														
Deseret Farms of California	22.5R		0						46	86	345	260	302	58	1,097
Furlan, Antonio, et ux.	26.6L		0						0	0	15	18	0	0	33
--STAGE STATION - SACRAMENTO RIVER AT FREMONT WEIR, WEST END	27.9R														
Hershey, Davidella, et al.	28.1R		0						0	0	0	0	0	0	0
Furlan, Antonio, et ux.	28.2L		0						0	0	0	0	0	0	0
Wallace Construction Co., Inc.	29.7R		0						0	0	0	0	0	0	0
Furlan, Antonio, et ux.	30.5L		0						0	80	81	55	0	0	216
Wallace Construction Co., Inc.	30.7R		0						0	0	0	0	0	0	0
Wallace Construction Co., Inc.	32.1R		0						14	343	211	318	40	0	926
Sutter Mutual Water Co.	32.4L		0						901	3,064	2,869	2,848	2,568	918	13,168
Leiser, Martha S., et al.	33.75L		0						16	170	146	202	206	61	801
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--															
River Garden Farms Co.	34.5R		0						511	1,253	665	627	0	0	3,056
Title Insurance and Trust Co.	35.2L		0						48	38	132	34	38	10	300
Sutter Mutual Water Co.	40.6L		0						1,294	5,862	4,470	5,524	4,884	1,059	23,093
River Garden Farms Co.	41.0R		0						194	1,181	1,088	1,184	970	0	4,617
Reclamation District No. 108	43.1R		0						242	4,021	349	889	0	0	5,501
River Garden Farms Co.	43.1R		0						134	4,008	3,885	4,014	4,121	1,759	17,921
Reclamation District No. 108	43.4R		0						0	212	67	119	79	0	477
Clauss, John, Jr., et al.	44.2L		0						0	0	0	0	0	0	0
Clauss, John, Jr., et al.	45.6L		0						0	44	108	0	99	0	251
Clauss, John, Jr., et al.	46.45L		0						24	229	168	108	0	0	529
Henle, John R., et ux.	46.5L		0						0	0	182	48	0	0	230
Oji, Masonobu, et al	48.7L		0						114	510	650	601	264	0	2,139
Hiatt, Glenwood J., et al.	49.0L		0						0	249	173	254	107	0	783
Hiatt, Glenwood J., et al.	49.7L		0						37	262	296	350	335	93	1,373
Reclamation District No. 108	51.1R		0						4,119	6,563	4,220	5,568	5,070	1,113	26,653

TABLE B-6 (Continued)
MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF *

October 1972 through September 1973

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET		
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.	
Keeler, William S.	51.2L		0							0	425	639	619	541	161	2,385
Reclamation District No. 108	53.8R		0							1,059	2,464	2,998	2,928	250	321	12,276
Chaplin, May B., et al.	55.1L		0							0	349	193	156	70	0	768
Chaplin, May B., et al.	56.3L		0							0	0	0	0	0	0	0
Reclamation District No. 108	56.4R		0							1,601	3,591	3,280	3,742	3,644	977	16,835
Chaplin, May B., et al.	56.95L		0							39	971	1,142	1,224	1,085	84	4,545
Pelger Mutual Water Co.	57.25L		0							455	2,184	1,758	1,806	1,363	88	7,654
Title Insurance and Trust Co.	58.3L		0							0	40	201	173	58	0	472
Reclamation District No. 108	59.15R		0							168	161	193	230	0	0	752
Larner, William A., et ux.	60.4L		0							21	602	537	680	555	120	2,515
Reclamation District No. 108	61.05R		0							0	0	0	0	0	0	0
Reclamation District No. 108	61.2R		0							0	186	88	144	67	63	548
Reclamation District No. 108	62.3R		0							0	274	226	267	192	108	1,067
Reclamation District No. 108	62.6R		0							0	16	16	30	0	0	62
Reclamation District No. 108	63.2R		370							8,909	32,369	21,394	25,678	24,139	5,719	118,578
Sutter Mutual Water Co.	63.75L		0							18,461	49,024	45,718	42,248	35,057	7,436	197,944
Oji Brothers Farm, Inc.	63.9L		0							68	215	302	248	208	25	1,066
--STAGE STATION - SACRAMENTO RIVER AT TISDALE WEIR--	64.2L															
Tisdale Irrigation and Drainage Co.	64.4L									0	287	326	398	186	40	1,237
Tisdale Irrigation and Drainage Co.	67.1L		0							446	795	759	1,033	1,005	236	4,274
Wiship, Alan D., et al.	67.1L		0							0	0	0	48	0	0	48
Newhall Land and Farming Co.	67.5L		0							943	1,530	1,433	461	438	191	4,996
Meridian Farms Water Co.	68.8L		0							0	0	0	0	0	0	0
Reclamation District No. 108	70.4R		0							0	0	0	0	0	0	0
Meridian Farms Water Co.	71.1L		0							646	1,222	1,223	1,452	1,405	317	6,265
Andreotti, Otterina, et al.	72.1L		0							0	639	711	739	591	193	2,873
Meridian Farms Water Co.	74.8L		0							158	981	867	919	900	355	4,180
Davis, Olive Percy, et al.	77.8R		48							197	294	373	138	87	74	1,211
Davis, Olive Percy, et al.	78.15R		0							1,317	2,607	2,560	1,978	2,001	722	11,185
Davis, Olive Percy, et al.	78.75R		82							193	758	366	535	486	296	2,716
Davis, Olive Percy, et al.	78.8R		0							594	2,324	2,270	2,216	1,973	265	9,642
Meridian Farms Water Co.	80.0L		0							1,449	3,538	3,650	3,998	3,276	1,058	16,969
Tomlinson, Fred L., et al.	81.5L		0							125	152	116	68	20	0	481
Tomlinson, Fred L., et al.	81.8L		0							0	86	112	89	122	0	409
Reclamation District No. 1004	85.3L		0							0	31	13	15	2	0	61
Swinford Tract Irrigation Co.	87.7R		0							0	71	36	83	0	0	190
Colusa Irrigation Co.	89.2R		0							62	223	206	273	68	0	832
Reclamation District No. 1004	89.25L		0							0	860	670	851	809	144	3,334
Roberts Ditch Irrigation Co., Inc.	90.7R		15							87	271	327	326	205	134	1,365
--STAGE STATION - SACRAMENTO RIVER AT COLUSA WEIR--	92.4L															
Lovvorn, Wilson M., et ux.	93.15R		0							0	614	107	0	0	0	721
Wilbur, Roger C.	95.25L		0							28	480	298	260	9	0	1,075
Lewis, Joan, et al.	95.6L		692							522	889	678	574	45	109	3,509
Griffin, J. T., et al.	95.75L		0							100	326	308	321	193	0	1,248
Griffin, J. T., et al.	95.8L		0							158	0	0	0	0	0	158
Wells, Joyce	98.6L		0							89	350	354	324	368	84	1,569
Huoter Estate	98.6L		0							79	311	314	287	326	75	1,392
Sactane Mutual Water Co.	99.25L		0							0	872	1,194	224	269	140	2,699
Forry, Helen May	99.8L		39							235	589	562	654	495	82	2,656
Forry, Helen May	100.0L		0							0	7	88	49	50	0	194
Colusa Properties, Inc.	101.8L		0							125	103	234	282	239	29	1,012
Carter, Robert E.	102.9L		0							0	0	0	0	0	0	0
--STAGE STATION - SACRAMENTO RIVER AT MOULTON WEIR--	103.6R															
Maxwell Irrigation District	103.8R		0							0	0	0	0	387	41	428
Zumwalt Orchards, Inc.	104.8L		0							0	97	107	62	0	95	361

TABLE B-6 (Continued)
 MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF *
 October 1972 through September 1973

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
Cannell, Fred, et al.	106.0R		0						10	246	254	200	0	77	787
Reclamation District No. 1004	112.1L		2,614						2,393	11,494	10,174	9,620	9,567	4,129	49,991
Princeton-Codora-Glenn Irrigation District	112.4R		0						1,686	3,385	3,501	3,625	1,880	885	14,962
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L														
Princeton-Codora-Glenn Irrigation District	123.9R		398						4,346	10,392	8,899	9,309	8,748	4,026	46,118
Provident Irrigation District	124.2R		1,394						4,535	11,029	8,502	8,928	5,866	492	40,746
--GAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R														
M. & T., Incorporated	141.5L		6						221	630	912	2,110	2,128	575	6,582
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY--	149.5L														
Glenn-Colusa Irrigation District	154.8R		11,713						61,635	164,331	146,821	145,180	137,353	68,156	735,189
Provident Irrigation District	154.8R	Gravity	0						1,204	1,204	1,204	1,584	1,455	0	6,651
--RED BLUFF BRIDGE--	193.45														
SACRAMENTO RIVER, TOTAL DIVERSIONS			17,371						130,057	386,074	337,697	336,676	303,209	113,270	1,624,354

* All data furnished by the U. S. Bureau of Reclamation for October and the period April through September.
 a Mile 19.6L Cross Canal. Distance from Sacramento River and bank are shown in parentheses.

TABLE B-6 (Continued)
 DIVERSIONS - MOKELUMNE RIVER
 October 1972 through September 1973

WATER USER	MILE AND RANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET		
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.	
<u>BELOW WOODBRIDGE DAM</u>																
Albin C. Steffan	8.7R 10.6R 12.7R	1-12 1-16 1-12			4		102 27	NO DIVERSION 97 44	546 171	572 317	581 612	510 621	593 698	281 386	3,286 2,876	
Cranston Vineyards	12.7L	1-6									4	2		6		
Mrs. Julie Blattler	15.5R	1-4	7						5	7	9	12	9	5	54	
W. G. Taddel	15.6R	1-6							1	22	22	37	26		108	
Mrs. Rose J. Llnde	16.8R	1-6									78	144	91		313	
James Piazza	17.96R	1-6								42	66	30	48	30	20	236
Warren Hargrave	18.18L	1-7						NO DIVERSION								
--GAGING STATION - MOKELUMNE RIVER AT WOODBRIDGE--	19.2R															
--SACRAMENTO ROAD BRIDGE--	19.8															
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9															
MOKELUMNE RIVER BELOW WOODBRIDGE DAM																
Total diversions			7		4		129	141	765	984	1,332	1,376	1,449	692	6,879	
Average cubic feet per second							2	2	13	16	22	22	24	12	9	

Note: All diversion data were furnished by the East Bay Municipal Utility District.

<u>WOODBRIDGE DAM TO CAMANCHE DAM</u>																
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9															
Woodbridge Irrigation District	19.9L	Gravity	3,230					710	9,620	18,750	21,540	22,550	20,390	11,950	108,740	
Arthur J. Hoffman	21.85R	1-10							10	14	219	35	13	7	298	
C. H. Fillhardt	22.1R	1-6									3	3	3		9	
V. P. Sperling	22.5R	1-5						NO DIVERSION								
Robert Peters	23.03R	1-3	2						1	3	2	2	2	2	14	
Cecil Mumbert	23.4R	1-4									25	36	21	16	98	
Tillie D. Sanguinetti	23.4L	1-3						NO DIVERSION								
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6															
Occidental Petroleum Corporation	24.0L 24.12L	1-4 1-1 1/2						NO DIVERSION					37		37	
--HIGHWAY 99 BRIDGE--	24.2															
Marie Hallinan Estate	24.45L 24.5L	1-5 1-6						NO DIVERSION NO DIVERSION								
R. Vaccarezza	24.8L	1-5						NO DIVERSION								
Ray A. Mettler	25.2R	1-10							4	5	11	15	12	1	48	
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6															
W. F. Johnson	26.3L	1-4									10	30		4	44	
Richard Wagers	26.35L	1-2								5		2	1	1	9	
Nakagawa Brothers	26.9R	1-5								21	25	32	6	29	113	
Irene G. Burton a	27.5L	1-5								17	35	51	14		117	
Rose Llnde	27.6L	1-8									12	16	12		40	
Granston Vineyards	27.9L	1-10								27	44	74			145	
Frankie G. Dick	28.59L	1-6						NO DIVERSION								
Nakagawa Brothers	28.6R 28.71R	1-6 1-4								6	11 8	24 8	26 8	18 2	8 1	93 27
W. E. Melhaff b	29.9R	1-8									13	35	56	3	107	
Emil Bender	30.0L	1-10	2	6	3				10	4	8	6	4	2	45	
--BRUELLA ROAD BRIDGE	30.0															
A. Knoll	30.13L	1-8								8					8	
V. W. Hoffman	30.15L	1-8							10	33	67	38	15	1	164	
Hugh Davls	30.35R	1-6								43	57	63	7		170	
J. J. Schmiedt Estate	30.95L	1-7									14	73			87	
Leon Kirachenmann	31.0L	1-8								4	72	22	10		108	
V. W. Hoffman and Sons	31.45R	1-5									25	13			38	
Rosa D Soucie c	31.7L	1-5									105	30	40		175	

TABLE 8-6 (Continued)
 DIVERSIONS - MOKELUMNE RIVER
 October 1972 through September 1973

WATER USER	MILE AND BANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET										TOTAL DIVERSION OCT.-SEPT. ACRE-FEET			
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY		AUG.	SEPT.	
<u>WOODBRIDGE DAM TO CAMANCHE DAM (Continued)</u>																
John Graffigna Estate	31.7L	1-5							14	7	21	31	11		84	
Lawrence Jones	32.29L	1-14							NO DIVERSION							
North San Joaquin Water Conservation District	32.3L	2-14 1-16 1-18							1	790	1,852	1,803	1,877	1,701	683	8,707
G. R. Kalange	32.33R	1-6							51		30	30				111
William J. Lange	32.8R	1-1 1/2												1		1
Chester M. Locke	33.25L	1-10							1	25	129	126	69			350
Cranston Vineyards	33.45R 33.6R	1-8 1-8							NO DIVERSION							
Mokelumne North Irrigation Assn., Inc.	33.69R	1-10 1-12								30	23	22	38	10		123
Mokelumne North Irrigation Assn., Inc.	33.69R	1-10 1-12							7	27	171	321	182			708
N. C. Locke	33.7L	1-12	17	1	1				7	12	9	172	171	44		434
T. and E. Schmierer	33.8R	1-4									15	16	10	3		44
Pritam Singh Dhaliwal	34.05R	1-4									3					3
Norman Knoll	34.1R 34.3R	1-4 1-4								27	12	19	42	12		112
U. S. Department of Agriculture Soil Conservation Service	34.34L	1-5								24	6	10	24	7		71
U. S. Department of Agriculture Soil Conservation Service	34.34L	1-5							NO DIVERSION							
--ELLIOTT ROAD BRIDGE--	34.35															
J. Hull, J. Graham, and T. Hess	34.5R	1-4							NO DIVERSION							
R. Simmons and D. D. Jacobsen	34.55L	1-10								53	44	33	15	23		168
Donald Smith	34.55L	1-1 1/2								1	1	1	2	2	1	8
Agri-Management	34.6R	1-5							NO DIVERSION							
H. Bava, D. Panella, and Dr. Barkett	34.75L	1-16	10						1	4	117	114	179	51	34	510
Agri-Management	35.14R	1-16										20	80	29		129
El Rio Vineyards	35.15R	1-6							NO DIVERSION							
Grizzly Hill Ranch	35.2L	1-8	1								46	24	28	11		110
El Rio Vineyards	35.31R	2-10	6							24	114	290	687	223	40	1,384
Manuel Machado	35.4L	1-8								10	12	60	53	6		141
El Rio Vineyards	35.5R	1-8							NO DIVERSION							
R. D. Mehlhaff	35.7L 35.7L	1-6 1-8	1	1					8 5	25	55	78	75	46	56	345 5
I. H. Quessenberry	35.9L	1-7									43	19	47			109
Ferdie F. Sievers	36.0L	1-6								5	18	32	21	11		87
El Rio Vineyards	36.2R	1-6							NO DIVERSION							
Ossie Parker	36.45L	1-12								71		218				289
J. R. Widerrich, et al	36.75L 37.15L	1-5 1-10									10	22	21	12	7	72
W. L. Moffat, et al	37.45R 37.65L	1-8 1-10										160 75	160 65	161 97	160 18	641 255
Caterina Costa	37.7R	1-12										11	12			23
Frank Lucchesi	38.0L 38.1L	1-6 1-8										19 23	18 27			37 50
R. and R. Sutter	38.3L	1-10								12	30	63	40	52	25	222
N. and C. Locke	38.5L	1-12											255			255
Clements Estate	39.0L	1-12	133	24						198	476	466	456	488	286	2,527
H. S. Magee Estate	39.25L	1-5										9	20	24	8	61
--OLD CLEMENTS BRIDGE--	39.3															
L. and T. Deluca	39.59L	1-4										4				4
Bill Wakeham	39.6L	1-6	2								3	11	11	15	3	56
J. N. Henry	39.9R	1-6							NO DIVERSION							
Donald L. Farrell	40.48L	1-2 1/2									15	17	12	13	5	62
Claude C. Wood Company	40.52L	1-6									23	28	28	22		101
H. Ostermann	40.53L	1-6									19	41	25	29	23	137
C. and A. Mehrten	40.72L	1-6									33		46	37	6	122
Harry Mason	40.83L	1-6									30	19	30	17	12	108

TABLE B-6 (Continued)
 DIVERSIONS - MOKELUMNE RIVER
 October 1972 through September 1973

WATER USER	MILE AND BANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE- FEET		
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.	
WOODBRIDGE DAM TO CAMANCHE DAM (Continued)																
--HIGHWAY 88 BRIDGE--	41.00															
John Sutphin	41.14L	1-3								17	12	8	10	6	53	
C. Fukuhara and R. Nakashima	41.14R	1-2 1-8								6 6	2 39	6 39	6 41		20 125	
H. F. Lesage g	41.23R	1-7 1/2								1	36	20	9	3	69	
L. A. Rozzoni Estate	41.40L	1-10							NO DIVERSION							
H. F. Lesage h	41.50R	1-4							NO DIVERSION							
Clarence Jones	42.11R	1-8							16	21	24	25	26	17	129	
P. E. Blincoe, Jr.	42.24L	1-2 1/2							NO DIVERSION							
George W. Beggs	42.64L	1-6								7	11	12	20	25	36	111
P. W. Olivera	42.66R	1-3		2							21	24	11	11	7	76
George W. Beggs	42.97L	1-4	2	2					4	9	7	16	10	6	56	
	42.99L	1-8	21	32	33				47	71	54	91	70	42	461	
--CAMANCHE RECORDER - MOKELUMNE RIVER BELOW CAMANCHE DAM--	43.00															
P. W. Olivera	43.15R	1-4								21	19	17	11	2	70	
--CAMANCHE DAM--																
MOKELUMNE RIVER, WOODBRIDGE DAM TO CAMANCHE DAM																
Total diversions			3,427	68	37	0	0	732	11,029	22,131	26,795	28,461	24,402	13,588	130,670	
Average cubic feet per second			56	1	1	0	0	12	185	360	450	463	397	228	180	

Note: All diversion data were furnished by the East Bay Municipal Utility District.

- a Formerly listed as Irene C. Green
- b Formerly listed as W. E. Mehlhaff
- c Formerly listed as Rosa D. Soucie
- d Formerly listed as R. Simmons and D. D. Jacobsen
- e Formerly listed as Grizzly Hill Ranch
- f Formerly listed as Caterina Costa
- g New installation in 1973. Reactivated pump site
- h Reactivated pump site

TABLE B-7

DELIVERIES FROM FOLSOM AND NIMBUS RESERVOIRS
October 1972 through September 1973

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>AMERICAN RIVER</u>													
<u>Cordova Water Service and City of Folsom</u> a													
Total acre-feet	1,450	1,264	1,431	1,325	1,344	1,550	1,678	1,821	1,921	1,831	1,939	2,130	19,684
Average cubic feet per second	24	21	23	22	24	25	28	30	32	30	32	36	27
Monthly quantities in percent of seasonal	7.4	6.4	7.3	6.7	6.8	7.9	8.5	9.2	9.8	9.3	9.9	10.8	
<u>San Juan Suburban Water District</u> a													
Total acre-feet	1,760	1,257	1,319	1,307	1,021	1,119	2,317	4,621	5,127	5,679	5,277	3,691	34,495
Average cubic feet per second	29	21	21	21	18	18	39	75	86	92	86	62	48
Monthly quantities in percent of seasonal	5.1	3.6	3.8	3.8	3.0	3.2	6.7	13.4	14.9	16.5	15.3	10.7	
<u>State of California</u> e													
Total acre-feet	80	67	89	84	62	66	67	120	129	147	117	114	1,142
Average cubic feet per second	1	1	1	1	1	1	1	2	2	2	2	2	2
Monthly quantities in percent of seasonal	7.0	5.9	7.8	7.3	5.4	5.8	5.9	10.5	11.3	12.9	10.2	10.0	

TABLE B-8

IMPORTATIONS INTO NORTHEASTERN CALIFORNIA
October 1972 through September 1973

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>TRINITY RIVER</u>													
<u>Clear Creek Powerplant</u> a													
Total acre-feet	90,930	32,260	42,560	29,080	72,130	119,980	128,350	145,660	142,360	153,990	148,750	114,370	1,220,420
Average cubic feet per second	1,479	542	692	473	1,299	1,951	2,157	2,369	2,393	2,504	2,419	1,922	1,686
Monthly quantities in percent of seasonal	7.4	2.6	3.5	2.4	5.9	9.8	10.5	12.0	11.7	12.6	12.2	9.4	

TABLE B-9

EXPORTATIONS FROM NORTHEASTERN CALIFORNIA
October 1972 through September 1973

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>MOKELUMNE RIVER</u>													
<u>East Bay Municipal Utility District</u> b													
Total acre-feet	18,792	16,579	14,408	7,516	8,133	10,125	14,750	18,613	20,810	22,274	22,102	18,634	192,736
Average cubic feet per second	306	279	234	122	146	165	248	303	350	362	359	313	266
Monthly quantities in percent of seasonal	9.8	8.6	7.5	3.9	4.2	5.2	7.6	9.6	10.8	11.6	11.5	9.7	
<u>PUTAH CREEK</u>													
<u>Putah South Canal</u> a													
Total acre-feet	5,077	2,477	2,297	1,492	1,743	3,999	12,714	35,673	37,508	37,324	35,651	20,960	196,915
Average cubic feet per second	83	42	37	24	31	65	214	580	630	607	580	352	272
Monthly quantities in percent of seasonal	2.6	1.3	1.2	0.8	0.9	2.0	6.4	18.1	19.0	19.0	18.1	10.6	
<u>CACHE SLOUGH</u>													
<u>City of Vallejo</u> c													
Total acre-feet	1,075	986	876	771	1,038	783	1,212	1,459	1,621	1,533	1,459	1,443	14,256
Average cubic feet per second	17	17	14	13	19	13	20	24	27	25	24	24	20
Monthly quantities in percent of seasonal	7.6	6.9	6.1	5.4	7.3	5.5	8.5	10.2	11.4	10.8	10.2	10.1	
<u>OLD RIVER</u>													
<u>Contra Costa Canal</u> a													
Total acre-feet	6,912	4,473	4,136	3,868	3,554	4,084	4,969	11,689	11,538	14,315	13,363	9,951	92,852
Average cubic feet per second	112	75	67	63	64	66	84	190	194	233	217	167	128
Monthly quantities in percent of seasonal	7.4	4.8	4.5	4.2	3.8	4.4	5.4	12.6	12.4	15.4	14.4	10.7	
<u>Delta-Mendota Canal</u> a													
Total acre-feet	207,307	0	28	90,489	35,027	39,400	146,813	275,367	273,183	285,340	276,125	226,500	1,855,579
Average cubic feet per second	3,366	0	0.5	1,472	631	641	2,467	4,478	4,591	4,641	4,491	3,806	2,563
Monthly quantities in percent of seasonal	11.2	0	0	4.9	1.9	2.1	7.9	14.8	14.7	15.4	14.9	12.2	
<u>ITALIAN SLOUGH</u>													
<u>California Aqueduct</u>													
Total acre-feet	179,737	207,269	208,366	82,390	26,800	38,326	46,567	103,282	149,535	164,967	180,195	102,705	1,490,139
Average cubic feet per second	2,923	3,483	3,389	1,340	483	623	783	1,680	2,513	2,683	2,931	1,726	2,058
Monthly quantities in percent of seasonal	12.1	13.9	14.0	5.5	1.8	2.6	3.1	6.9	10.0	11.1	12.1	6.9	

a Data furnished by U. S. Bureau of Reclamation.

b Data furnished by East Bay Municipal Utility District.

c Data furnished by City of Vallejo.

d Amounts are total diversion into the canal; only an unknown portion of this is exported from Northeastern California.

TABLE B-10

MAXIMUM AND MINIMUM GAGE HEIGHTS

This table contains the historical maximum and the annual maximum and minimum gage heights for selected stations formerly reported in the "Daily Mean Gage Heights" table.

Discharges corresponding to the reported maximum gage heights are included in the table. Due to possible changes in gage height-discharge relationships, the discharges may not be record or annual maximums. Discharges are rounded off in accordance with the procedures described in Table B-5, "Daily Mean Discharge".

Historic data include the location, period of record, gage height datum, and a brief description of each station.

TABLE B-10 (Continued)
MAXIMUM AND MINIMUM GAGE HEIGHTS

Station Name: BUTTE SLOUGH NEAR MERIDIAN Station Number: A02972 Water Year: 1973
 Location: LAT 39 10 20 LONG 121 54 02 NE Sec 7 T15N R1E MDB&M Period of Record: #1934 to DATE
 Historic: Maximum Gage Height: Discharge: Date: Time: Zero of Gage: 0.00 USED
 Water Year: Maximum Gage Height: 56.90 Discharge: 59,065 cfs Date: 1-20-73 Time: 1815 Zero of Gage: 0.00 USED
 Minimum Gage Height: 39.37 Discharge: 86.0 cfs Date: 10-9-72 Time: 0800
 # - 1934 to 1937 Flood season only

Station located on right bank 0.3 mile upstream from Farlan Road, 2.0 miles NE of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from land irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

Station Name: WADSWORTH CANAL NEAR SUTTER Station Number: A05929 Water Year: 1973
 Location: LAT 39 09 12 LONG 121 44 00 NE Sec 15 T15N R2E BDB&M Period of Record: 1961 to DATE
 Historic: Maximum Gage Height: 53.62 Discharge: Date: 1-26-70 Time: Zero of Gage: 0.00 USED
 Water Year: Maximum Gage Height: 49.64 Discharge: Date: 1-18-73 Time: 1030 Zero of Gage: 0.00 USED
 Minimum Gage Height: Date: Time:

Station located at South Butte Road Bridge, 0.9 mile E of Sutter. Tributary to Sutter Bypass. This station and one 2.2 miles downstream are used to determine the slope for rating of canal. Records for January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road.

Station Name: YUBA RIVER NEAR MARYSVILLE Station Number: A06150 Water Year: 1973
 Location: LAT 39 10 33 LONG 121 31 26 Period of Record: 1940 to DATE
 Historic: Maximum Gage Height: 90.15 Discharge: 180,000 cfs Date: 12-22-64 Time: Zero of Gage: -2.95 USCGS
 Water Year: Maximum Gage Height: 70.04 Discharge: 19,400 cfs Date: 1-16-73 Time: 2030 Zero of Gage: -2.95 USCGS
 Minimum Gage Height: Date: Time:

Station located 5 miles below Dry Creek, 4.2 miles northeast of Marysville. Maximum discharge listed for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 1,339 square miles.

Station Name: BEAR RIVER NEAR WHEATLAND Station Number: A06550 Water Year: 1973
 Location: LAT 39 00 01 LONG 121 24 21 SW Sec 3 T13N R5E MDB&M Period of Record: 1928 to DATE
 Historic: Maximum Gage Height: 19.30 Discharge: 33,000 cfs Date: 12-22-55 Time: Zero of Gage: 78.92 USCGS
 Water Year: Maximum Gage Height: 16.45 Discharge: 16,600 cfs Date: 1-12-73 Time: 1030 Zero of Gage: 71.92 USCGS
 Minimum Gage Height: Date: Time:

Station located 100 feet below U. S. Highway 99E bridge, 1 mile southeast of Wheatland. Tributary to Feather River. Flow regulated by Camp Far West Reservoir. Records furnished by U. S. Geological Survey. Drainage area is 292 square miles.

Station Name: AMERICAN RIVER AT FAIR OAKS Station Number: A07175 Water Year: 1973
 Location: LAT 38 38 08 LONG 121 13 36 NE Sec 17 T9N R7E MDB&M Period of Record: 1904 to DATE
 Historic: Maximum Gage Height: 31.85 Discharge: 180,000 cfs Date: 11-21-50 Time: Zero of Gage: 64.79 USCGS
 Water Year: Maximum Gage Height: 15.42 Discharge: 32,700 cfs Date: 1-14-73 Time: 0930 Zero of Gage: 71.53 USCGS
 Minimum Gage Height: Date: Time:

Station located 2,100 feet below Nimbus Dam, 2.4 miles east of Fair Oaks. Flow regulated by Folsom Lake. Maximum discharge listed at site and datum then in use. Records furnished by U. S. Geological Survey. Drainage area is 1,888 square miles.

Station Name: CACHE CREEK AT YOLO Station Number: A08125 Water Year: 1973
 Location: LAT 38 43 31 LONG 121 48 22 Period of Record: 1903 to DATE
 Historic: Maximum Gage Height: 35.11 Discharge: 41,400 cfs Date: 2-25-58 Time: Zero of Gage: 52.27 USCGS
 Water Year: Maximum Gage Height: 74.17 Discharge: 21,300 cfs Date: 1-18-73 Time: 2130 Zero of Gage: 0.00 USCGS
 Minimum Gage Height: Date: Time:

Station located 800 feet above U. S. Highway 99W bridge, 0.5 mile south of Yolo. Tributary to Yolo Bypass. Maximum discharge listed at present datum. Records furnished by U. S. Geological Survey. Drainage area is 1,139 square miles.

TABLE B-10 (CONTINUED)
MAXIMUM AND MINIMUM GAGE HEIGHTS

Station Name: YOLO BYPASS NEAR WOODLAND Station Number: A02935 Water Year: 1973
 Location: LAT 38 40 40 LONG 121 38 35 SE Sec 28 T10N R3E MDB&M Period of Record: 1939 to DATE
 Historic: Maximum Gage Height: 32.00 Discharge: 272,000 cfs Date: 2-8-42 Time: Zero of Gage: -3.41 USCGS
 Water Year: Maximum Gage Height: 28.24 Discharge: 112,000 cfs Date: 1-19-73 Time: 0800 Zero of Gage: -3.41 USCGS
 Minimum Gage Height: Date: Time:

Station located just above the Sacramento-Woodland Railroad Bridge, 6 miles above the Sacramento Bypass, 7 miles below Fremont Weir, 7 miles east of Woodland. Supplementary water stage recorder, located 7 miles downstream, used for computations during periods of low flow. Stage-discharge relationship at supplementary recorder location at times affected by tidal action. Records furnished by U. S. Geological Survey.

Station Name: PUTAH CREEK NEAR WINTERS Station Number: A91250 Water Year: 1973
 Location: LAT 38 30 55 LONG 122 04 51 NE Sec 28 T8N R2W MDB&M Period of Record: 1930 to DATE
 Historic: Maximum Gage Height: 30.50 Discharge: 81,000 cfs Date: 2-27-40 Time: Zero of Gage: 160.75 USCGS
 Water Year: Maximum Gage Height: 9.13 Discharge: 1,140 cfs Date: 3-21-73 Time: 1830 Zero of Gage: 160.75 USCGS
 Minimum Gage Height: Date: Time:

Station located 1.3 miles below Monticello Dam, 6 miles west of Winters. Flow regulated by Lake Berryessa. Maximum discharge listed at present datum. Records furnished by U. S. Geological Survey. Drainage area is 574 square miles.

Station Name: MOKELUMNE RIVER AT WOODBRIDGE Station Number: B02105 Water Year: 1973
 Location: LAT 38 09 31 LONG 121 18 09 NE Sec 34 T4N R6E MDB&M Period of Record: 1924 to DATE
 Historic: Maximum Gage Height: 29.58 Discharge: 27,000 cfs Date: 11-22-50 Time: Zero of Gage: 14.90 USCGS
 Water Year: Maximum Gage Height: 14.79 Discharge: 2,000 cfs Date: 2-16-73 Time: 1900 Zero of Gage: 14.90 USCGS
 Minimum Gage Height: Date: Time:

Station located 0.3 mile below county highway bridge, 0.4 mile below dam and canal intake of Woodbridge Irrigation District. Flow regulated by reservoirs and powerplants. Records furnished by U. S. Geological Survey. Drainage area is 661 square miles.

Station Name: COSUMNES RIVER AT MICHIGAN BAR Station Number: B11150 Water Year: 1973
 Location: LAT 38 30 01 LONG 121 02 39 SE Sec 36 T8N R8E MDB&M Period of Record: 1907 to DATE
 Historic: Maximum Gage Height: 14.59 Discharge: 42,000 cfs Date: 12-23-55 Time: Zero of Gage: 168.09 USCGS
 Water Year: Maximum Gage Height: 9.39 Discharge: 15,000 cfs Date: 1-16-73 Time: 1700 Zero of Gage: 168.09 USCGS
 Minimum Gage Height: Date: Time:

Station located on highway bridge, 5.5 miles southwest of Latrobe. Flow partly regulated by Jenkinson Lake. Records furnished by the U. S. Geological Survey. Drainage area is 536 square miles.

Station Name: COSUMNES RIVER AT MCCONNELL Station Number: B01125 Water Year: 1973
 Location: LAT 38 21 29 LONG 121 20 34 SW Sec 20 T6N R6E MDB&M Period of Record: 1941 to DATE
 Historic: Maximum Gage Height: 46.26 Discharge: 54,000 cfs Date: 12-23-55 Time: Zero of Gage: -3.34 USCGS
 Water Year: Maximum Gage Height: 45.35 Discharge: 15,800 cfs Date: 1-17-73 Time: 0730 Zero of Gage: -3.34 USCGS
 Minimum Gage Height: Date: Time:

Station located on U. S. Highway 99 bridge, 0.2 mile south of McConnell, 7.0 miles north of Galt. Maximum discharge of record listed is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 724 square miles.

TABLE B-11
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02445	SACRAMENTO RIVER AT MOULTON WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1						77.14 A							1
2													2
3													3
4													4
5													5
6													6
7													7
8						77.70 A							8
9						77.19 A							9
10													10
11						77.05 A							11
12													12
13													13
14													14
15						76.87 A							15
16						76.87 A							16
17				78.67 A									17
18				79.13									18
19				79.75									19
20				79.68									20
21				78.11									21
22				77.34									22
23				76.94 A									23
24													24
25													25
26													26
27													27
28						77.04 A							28
29													29
30													30
31													31

A - Mean gage height for partial day of flow

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-73	2145	80.34									
2- 8-73	1545	78.04									

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 20 18	122 01 18	SE12 17N 2W		83.8	2/7/42	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located west of south end of weir, 4.6 mi. S of Princeton. Gage heights below weir crest (elevation 76.75 ft.) are not tabulated.

A - Mean gage height for period of flow.

- Flood season only.

TABLE B-11 (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02450	SACRAMENTO RIVER OPPOSITE MOULTON WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.85	56.96	61.22	61.67	67.73	76.65	61.56	58.72	59.12	57.86	58.39	57.64	1
2	56.86	56.92	60.77	61.56	66.55	74.82	60.96	58.53	58.93	57.90	58.16	57.66	2
3	56.82	56.98	60.36	61.45	65.90	73.16	60.62	58.24	58.61	57.83	57.96	57.55	3
4	56.81	57.04	60.11	61.38	65.82	72.67	60.41	58.01	58.45	57.93	57.92	57.31	4
5	56.64	57.92	60.17	61.25	68.77	72.74	60.24	58.24	58.33	57.97	57.94	57.17	5
6	56.41	57.69	59.44	61.14	71.41	71.38	60.19	58.27	58.20	58.13	57.83	57.18	6
7	56.39	57.26	59.26	60.92	73.31	73.10	60.21	58.19	58.13	58.11	57.72	57.19	7
8	56.39	57.02	59.23	60.66	77.63	71.53	60.18	58.13	58.04	58.14	57.71	57.20	8
9	56.43	57.33	59.07	60.98	75.89	70.02	60.00	58.18	57.99	58.24	57.71	57.23	9
10	56.52	57.37	58.81	69.05	74.88	68.61	59.91	58.12	57.92	58.26	57.72	57.29	10
11	56.81	58.31	58.77	70.93	76.81	68.16	59.84	58.08	57.86	58.21	57.76	57.32	11
12	57.03	60.92	58.74	75.48	76.05	68.30	59.90	58.30	57.80	58.21	57.73	57.35	12
13	57.07	59.06	58.70	77.94	75.85	67.25	59.79	58.59	57.75	58.32	57.49	57.39	13
14	57.08	61.40	58.33	76.03	75.49	66.05	59.74	58.70	57.83	58.41	57.65	57.45	14
15	57.17	66.88	58.29	72.33	76.16	64.69	59.57	58.81	57.84	58.43	57.69	57.49	15
16	57.70	65.66	58.32	72.00	76.09	63.55	59.40	58.83	57.89	58.45	57.68	57.53	16
17	57.90	67.43	59.70	78.44	73.49	62.66	59.21	59.25	57.91	58.47	57.64	57.60	17
18	57.75	62.88	69.01	79.30	71.60	62.09	59.28	59.58	57.88	58.41	57.70	57.66	18
19	57.44	62.55	69.96	80.02	70.15	61.57	59.05	59.58	57.87	58.44	57.72	57.68	19
20	57.21	62.61	69.86	79.92	68.82	61.93	58.71	59.63	57.78	58.45	57.78	57.79	20
21	57.15	62.25	65.66	78.17	67.74	65.90	58.41	59.55	57.78	58.46	57.78	57.87	21
22	57.13	61.78	63.35	77.29	66.44	66.15	58.24	59.38	57.71	58.47	57.82	57.97	22
23	57.11	61.75	64.85	76.67	65.74	65.44	58.08	59.27	57.71	58.47	57.84	58.06	23
24	57.05	61.79	63.84	76.00	65.60	63.27	58.07	59.27	57.94	58.44	57.90	58.18	24
25	57.03	61.68	63.20	75.10	68.20	62.16	57.96	59.55	57.82	58.43	57.94	58.23	25
26	57.03	61.59	61.92	73.04	68.28	61.67	58.14	60.43	57.72	58.42	57.98	58.22	26
27	57.03	61.53	61.11	70.62	70.42	61.40	58.43	59.79	57.66	58.40	58.03	58.15	27
28	56.99	61.52	60.80	68.71	75.27	61.15	58.52	59.52	57.67	58.38	58.08	58.12	28
29	57.00	61.54	61.04	67.29		61.03	58.55	59.36	57.79	58.38	58.09	58.07	29
30	56.97	61.50	60.99	68.49		60.98	58.70	59.21	57.81	58.43	58.09	58.07	30
31	56.93		61.41	69.53		61.10		59.07		58.39	57.87		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-73	2200	80.68									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 20 13	122 01 50	SW12 17N 2W		85.5 83.0	2/ 7/42 12/24/64	MAR 54-DATE 8	OCT 22-MAY 40 # JUL 40-JUL 41 NOV 41-JUL 43 # OCT 43-DATE			0.00	USED

Station located immediately W of weir, 4.8 mi. S of Princeton.

8 - Irrigation season only.
 # - Flood season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02430	SACRAMENTO RIVER AT COLUSA WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1						64.83							1
2						64.14							2
3						63.58							3
4						63.30							4
5					62.47 A	63.40							5
6					62.97	62.89							6
7					63.44	63.40							7
8					65.14	63.02							8
9					64.68	62.39							9
10				62.60 A	64.07	61.95 A							10
11				62.75	64.84								11
12				64.33	64.58								12
13				65.61	64.50								13
14				64.82	64.34								14
15				63.38	64.53								15
16				62.98	64.64								16
17				65.43	63.72								17
18				66.16	63.01								18
19			62.09 A	66.26	62.46								19
20			62.58 A	66.45	61.95 A								20
21				65.66									21
22				65.21									22
23				64.94									23
24				64.66									24
25				64.34									25
26				63.64									26
27				62.71	62.80 A								27
28				62.13 A	64.08								28
29													29
30				62.16 A									30
31				62.25 A									31

A - Mean gage height for partial day of flow.

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-20-73	0145	66.67									
2-8-73	1845	65.42									

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 14 12	121 59 38	SEL7 16N 1W		70.6	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located at north end of weir, 2.0 mi. N of Colusa. Gage heights below weir crest (elevation 61.80 ft.) are not tabulated.

A - Mean gage height for period of flow.

- Flood season only.

TABLE B-11 (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02301	SACRAMENTO RIVER AT TISDALE WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					47.23	48.40							1
2					46.74	48.30							2
3					46.30	48.16							3
4					45.97	48.02							4
5					46.51	48.07							5
6					46.69	47.93							6
7					47.82	47.98							7
8					48.27	47.98							8
9					48.35	47.75							9
10				46.51 A	48.17	47.52							10
11				47.47	48.34	47.15							11
12				47.88	48.34	47.25							12
13				48.56	48.31	46.95							13
14				48.61	48.27	46.44							14
15		45.50 A		48.23	48.28	45.78 A							15
16		45.08		47.93	48.35								16
17		46.53		48.39	48.16								17
18		46.01 A	46.33 A	48.88	47.94								18
19			47.20	48.90	47.77								19
20			47.49	49.07	47.55								20
21			46.64	48.83	47.23								21
22			45.61 A	48.59	46.72								22
23				48.47	46.17								23
24				48.33	45.78								24
25				48.23	46.31								25
26				48.08	47.18								26
27				47.83	47.24								27
28				47.57	48.01								28
29				47.05									29
30				46.93									30
31				47.59									31

A - Mean gage height for partial day of flow

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
 NR - NO RECORD
 NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-20-73	1315	49.11									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 36	121 49 16	NE35 14N 1E		53.3	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED

Station located west of north end of weir, 5.0 mi. SE of Grimes. Gage heights below weir crest (elevation 45.45 ft.) are not tabulated.

- Flood season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02927	SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.95	15.30	19.68	20.29	32.60	34.59	20.82	15.27	17.35	14.37	15.97	16.63	1
2	15.84	15.05	19.50	20.42	32.12	34.94	20.75	15.04	17.09	14.39	16.33	16.44	2
3	15.75	14.92	19.14	20.45	31.36	34.94	20.36	14.76	17.04	14.38	16.62	16.32	3
4	15.66	15.05	18.80	20.40	30.77	34.87	19.98	14.64	16.67	14.31	16.44	16.24	4
5	15.59	15.05	18.43	20.56	30.92	34.71	19.62	14.48	16.18	14.30	16.32	16.28	5
6	15.34	15.41	18.29	20.58	31.06	34.48	19.41	14.43	15.73	14.44	16.18	16.26	6
7	15.12	15.67	18.01	20.65	32.24	34.42	19.16	14.54	15.22	14.43	16.25	16.31	7
8	15.08	15.42	17.73	21.00	33.40	34.38	18.88	14.33	15.15	14.47	15.98	16.48	8
9	15.00	15.27	17.60	21.69	34.22	34.29	18.78	14.05	14.95	14.48	15.84	16.66	9
10	15.10	15.50	17.51	23.96	34.89	33.93	18.27	14.16	14.64	14.57	15.82	16.34	10
11	15.44	16.09	17.25	27.10	35.29	33.47	17.52	14.21	14.41	14.59	15.96	16.41	11
12	15.68	17.14	17.23	30.56	35.45	32.85	17.62	14.33	14.20	14.59	16.07	16.59	12
13	15.92	18.61	16.97	34.73	35.25	31.99	17.74	14.59	14.00	14.62	16.01	16.74	13
14	15.90	19.24	16.84	35.50	35.11	30.74	17.70	14.95	13.97	14.69	15.92	16.88	14
15	15.98	21.01	16.59	35.44	35.07	29.36	17.90	15.34	14.13	14.78	15.74	16.98	15
16	16.04	23.49	16.62	35.32	34.90	27.88	18.11	15.30	14.40	14.95	15.81	16.87	16
17	16.36	24.55	17.01	35.89	34.75	26.68	18.04	15.47	14.43	15.17	15.87	16.84	17
18	16.66	25.13	19.71	36.40	34.48	25.33	17.82	16.01	14.53	15.60	15.84	16.99	18
19	16.61	24.42	23.98	36.88	34.12	23.96	17.71	16.66	14.30	15.71	15.95	17.07	19
20	16.41	23.45	26.28	36.83	33.71	22.95	17.66	17.34	14.00	15.76	16.04	16.92	20
21	16.12	22.91	27.15	36.49	33.07	22.79	17.42	17.11	14.03	15.77	16.23	16.84	21
22	15.96	22.42	27.31	35.93	32.11	24.63	17.13	17.24	14.17	15.95	16.08	16.87	22
23	15.89	21.95	26.63	35.42	30.94	26.55	16.61	18.06	14.37	15.88	16.01	16.97	23
24	15.73	21.41	26.00	35.05	29.61	27.01	16.21	18.75	14.40	15.93	16.02	17.02	24
25	15.54	21.03	25.39	34.82	28.73	26.01	15.90	18.64	14.87	15.94	16.11	17.09	25
26	15.54	20.78	24.56	34.64	28.39	24.51	15.54	18.68	14.93	15.93	16.35	16.99	26
27	15.55	20.48	23.51	34.31	28.88	23.10	15.30	18.91	14.77	15.95	16.40	16.80	27
28	15.54	20.20	22.47	33.81	32.29	21.87	15.46	18.74	14.57	15.97	16.55	16.45	28
29	15.54	20.02	21.54	33.17		21.07	15.64	18.44	14.46	15.82	16.60	16.20	29
30	15.37	19.79	20.83	32.67		20.70	15.43	17.99	14.30	15.67	16.63	16.08	30
31	15.29		20.44	32.73		20.57		17.68		15.96	16.70		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-73	1430	36.93									

E - ESTIMATED
 NR - NO RECORD
 NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
							1915 - DATE			0.00	USED

Station located on west levee, 3.7 mi. SE of Knights Landing

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02170	SACRAMENTO RIVER AT FREMONT WEIR, WEST END

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.11	16.60	21.82	22.18	33.73	35.08	22.43	16.66	18.39	15.59	17.17	17.77	1
2	16.96	16.42	21.66	22.36	33.31	35.33	22.50	16.63	18.17	15.58	17.46	17.52	2
3	16.85	16.27	21.19	22.38	32.59	35.32	22.05	16.64	18.01	15.57	17.62	17.44	3
4	16.79	16.41	20.74	22.32	32.03	35.27	21.66	16.61	17.58	15.51	17.42	17.33	4
5	16.74	16.43	20.35	22.38	32.27	35.16	21.28	16.55	17.14	15.57	17.26	17.29	5
6	16.49	16.95	20.14	22.40	32.60	34.97	21.09	16.48	16.74	15.60	17.19	17.26	6
7	16.24	17.14	19.72	22.38	33.54	34.93	20.90	16.44	16.32	15.67	17.16	17.30	7
8	16.21	16.84	19.39	22.56	34.30	34.91	20.71	16.38	16.07	15.77	17.04	17.47	8
9	16.12	16.61	19.28	23.03	34.80	34.83	20.59	16.29	15.91	15.81	17.01	17.49	9
10	16.21	16.90	19.17	25.46	35.27	34.56	20.15	16.19	15.66	15.94	16.97	17.38	10
11	16.53	17.49	18.88	29.47	35.58	34.27	19.69	16.11	15.44	15.91	16.99	17.41	11
12	16.81	18.73	18.88	32.17	35.70	33.89	19.73	16.05	15.32	15.88	17.12	17.61	12
13	17.15	20.44	18.66	35.14	35.55	33.25	19.80	16.01	15.16	15.91	17.20	17.80	13
14	17.14	20.73	18.51	35.74	35.44	32.04	19.69	16.28	15.14	16.04	17.16	17.93	14
15	17.27	23.15	18.22	35.67	35.42	30.41	19.76	16.67	15.22	16.18	17.10	18.10	15
16	17.34	25.90	18.24	35.54	35.29	28.24	19.82	16.89	15.22	16.31	17.05	18.14	16
17	17.71	27.05	18.51	36.03	35.18	26.68	19.64	17.00	15.35	16.44	17.03	18.22	17
18	18.09	27.11	21.49	36.41	34.97	25.37	19.40	17.59	15.41	16.82	17.02	18.32	18
19	17.97	25.55	26.81	36.79	34.71	24.34	19.30	18.19	15.36	16.92	17.08	18.35	19
20	17.71	24.67	28.68	36.77	34.43	23.72	19.17	18.61	15.33	17.01	17.16	18.27	20
21	17.39	24.18	28.85	36.51	33.99	24.44	18.75	18.66	15.21	17.06	17.30	18.24	21
22	17.24	23.66	28.05	36.07	33.25	27.09	18.47	18.74	15.10	17.16	17.23	18.28	22
23	17.13	23.16	26.76	35.66	32.10	28.83	18.01	19.24	15.11	17.19	17.20	18.42	23
24	17.04	22.83	26.81	35.39	30.66	28.53	17.59	19.72	15.38	17.22	17.24	18.45	24
25	16.85	22.60	26.12	35.22	29.96	26.70	17.30	19.67	15.68	17.19	17.31	18.52	25
26	16.84	22.48	25.23	35.08	29.95	25.06	16.86	19.75	15.82	17.18	17.54	18.44	26
27	16.84	22.28	24.05	34.84	30.53	24.02	16.61	20.17	15.71	17.18	17.60	18.27	27
28	16.83	22.10	23.19	34.49	33.48	23.09	16.79	19.85	15.63	17.18	17.71	17.96	28
29	16.89	22.03	22.59	34.06		22.53	17.00	19.45	15.53	17.09	17.84	17.76	29
30	16.69	21.89	22.27	33.73		22.26	16.77	19.03	15.46	16.97	17.89	17.62	30
31	16.61		22.13	33.83		22.18		18.66		17.17	17.91		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
 NR - NO RECORD
 NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-21-72	0400	28.99	1-19-73	1400	36.86	2-12-73	0930	35.75	3-2-73	1130	35.38

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 45 34	121 39 59	NW 32 11N 3E		39.7	12-23-1955		AUG 1934-DATE	1934		0.00	USED

Station located 0.1 mile west of weir, 4.0 miles southeast of Knights Landing.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02160	SACRAMENTO RIVER AT FREMONT WEIR, EAST END

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1						34.52							1
2						34.79							2
3						34.77							3
4						34.73							4
5						34.61							5
6						34.43							6
7						34.41							7
8						33.71							8
9						34.23							9
10						34.70							10
11						35.05							11
12						35.18							12
13				34.34		35.01							13
14				35.02		34.88							14
15				35.04		34.87							15
16				34.93		34.73							16
17				35.38		34.62							17
18				35.78		34.43							18
19				36.19		34.18							19
20				36.18		33.87							20
21				35.94		33.61							21
22				35.50									22
23				35.09									23
24				34.80									24
25				34.63									25
26				34.52									26
27				34.28									27
28				33.92		33.94							28
29				33.62									29
30													30
31													31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-73	1800	36.23	2-12-73	0700	35.22	3-2-73	1700	34.82			

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 45 55	121 38 05	SW 27 11N 3E		39.3	3-10-1940		APRIL 1935-DATE	1935		0.00	USED

Station located approximately 200 feet north of weir, 5.2 miles southeast of Knights Landing. Gage heights recorded only during periods when there is spill over weir.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A05191	FEATHER RIVER AT OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.53	0.53	0.50	0.48	0.53	0.53	0.55	0.55	0.55	0.55	0.55	0.53	1
2	0.53	0.51	0.50	0.50	0.54	0.53	0.55	0.55	0.55	0.55	0.55	0.52	2
3	0.53	0.51	0.50	0.50	0.53	0.53	0.54	0.55	0.55	0.56	0.55	0.51	3
4	0.54	0.51	0.50	0.50	0.53	0.53	0.55	0.55	0.55	0.55	0.55	0.52	4
5	0.53	0.51	0.49	0.50	0.54	0.53	0.55	0.55	0.54	0.55	0.55	0.52	5
6	0.53	0.51	0.49	0.50	0.55	0.53	0.55	0.55	0.54	0.56	0.55	0.52	6
7	0.53	0.50	0.50	0.50	0.54	0.53	0.55	0.55	0.55	0.55	0.55	0.51	7
8	0.53	0.51	0.50	0.50	0.54	0.53	0.55	0.55	0.55	0.55	0.55	0.50	8
9	0.53	0.50	0.50	0.50	0.54	0.53	0.55	0.55	0.54	0.55	0.55	0.50	9
10	0.53	0.51	0.50	0.50	0.54	0.53	0.55	0.55	0.55	0.55	0.55	0.51	10
11	0.53	0.51	0.49	0.55	0.53	0.52	0.55	0.55	0.55	0.55	0.54	0.51	11
12	0.53	0.50	0.49	0.52	0.52	0.52	0.55	0.55	0.55	0.56	0.55	0.51	12
13	0.54	0.50	0.50	0.50	0.53	0.52	0.55	0.55	0.55	0.55	0.55	0.51	13
14	0.54	0.51	0.50	0.50	0.53	0.52	0.55	0.55	0.55	0.56	0.54	0.51	14
15	0.53	0.50	0.51	0.51	0.53	0.52	0.55	0.55	0.55	0.56	0.54	0.51	15
16	0.52	0.51	0.50	5.25	0.53	0.51	0.55	0.55	0.54	0.55	0.55	0.51	16
17	0.51	0.50	0.52	9.78	0.52	0.52	0.56	0.55	0.54	0.55	0.54	0.51	17
18	0.51	0.50	0.51	9.78	0.53	0.52	0.56	0.54	0.54	0.55	0.54	0.50	18
19	0.51	0.50	0.51	8.03	0.53	0.52	0.56	0.54	0.55	0.55	0.54	0.50	19
20	0.51	0.50	0.51	3.00	0.53	0.51	0.55	0.54	0.55	0.55	0.54	0.51	20
21	0.51	0.50	0.50	0.53	0.53	0.52	0.55	0.55	0.55	0.54	0.54	0.51	21
22	0.50	0.49	0.49	0.53	0.53	0.52	0.55	0.54	0.55	0.54	0.54	0.51	22
23	0.50	0.49	0.49	0.52	0.53	0.53	0.56	0.54	0.55	0.54	0.55	0.51	23
24	0.50	0.50	0.49	0.53	0.53	0.55	0.55	0.55	0.55	0.54	0.54	0.50	24
25	0.50	0.49	0.49	0.53	0.53	0.55	0.55	0.55	0.55	0.54	0.53	0.50	25
26	0.51	0.50	0.50	0.53	0.53	0.55	0.56	0.55	0.55	0.53	0.53	0.50	26
27	0.52	0.50	0.50	0.52	0.56	0.55	0.56	0.55	0.54	0.54	0.54	0.50	27
28	0.51	0.50	0.50	0.52	0.53	0.55	0.56	0.55	0.55	0.53	0.55	0.50	28
29	0.51	0.50	0.49	0.53		0.55	0.56	0.54	0.55	0.54	0.55	0.50	29
30	0.51	0.50	0.49	0.54		0.55	0.56	0.55	0.55	0.55	0.55	0.50	30
31	0.51		0.49	0.54		0.55		0.55		0.55	0.54		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-16-73	1715	9.90									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 31 07	121 32 50	SE 8 19N 4E	230,000		3-19-1907	OCT 1901-DATE	OCT 1901-DATE	1912	1934	139.53	USCGS
								1934	1962	182.02	USCGS
								1962	1964	0.00	USCGS
								1964		148.97	USCGS

Station located 300 feet above Fish Barrier Dam, 0.6 mile northeast of Oroville. Flow is regulated by reservoirs and powerplants. Maximum discharge listed at site then in use (approximately 167.5 feet, USCGS Datum). Drainage area is 3,626 square miles.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A05165	FEATHER RIVER NEAR GRIDLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26.07	25.87	25.56	25.99	28.63	31.47	25.36	26.03	26.09	25.98	27.02	25.93	1
2	26.07	25.72	25.55	26.00	28.64	31.41	25.36	26.03	26.00	25.98	27.35	25.91	2
3	26.08	25.59	25.56	26.12	28.61	31.24	25.33	26.04	25.98	26.00	27.25	26.14	3
4	26.09	25.57	25.57	26.59	28.62	31.09	25.26	26.04	25.98	25.99	27.05	26.20	4
5	26.10	25.53	25.22	26.71	28.73	30.98	25.21	26.02	25.99	25.99	27.05	26.22	5
6	26.12	25.53	25.62	26.93	29.05	31.00	25.10	26.02	26.00	25.99	27.05	26.23	6
7	26.11	25.55	25.56	27.59	29.10	31.09	24.99	26.02	25.99	25.98	27.05	26.21	7
8	26.08	25.55	25.21	28.10	29.09	31.08	24.97	26.02	26.01	25.94	26.84	26.17	8
9	26.09	25.54	26.00	28.37	29.41	30.87	24.96	26.02	25.99	25.97	26.81	26.18	9
10	26.13	25.57	26.00	28.33	29.64	29.85	24.96	26.01	25.97	25.98	26.81	26.20	10
11	26.12	25.57	26.01	28.32	30.71	29.26	24.96	26.01	26.00	26.02	26.81	26.21	11
12	26.11	25.53	26.00	29.66	30.79	27.93	24.97	26.00	26.02	26.05	26.80	26.22	12
13	26.12	25.56	25.80	31.96	30.56	26.82	24.98	25.77	26.01	26.07	26.77	26.22	13
14	26.11	25.60	25.70	31.81	29.89	26.33	25.31	25.76	25.89	26.06	26.52	26.23	14
15	26.08	25.60	26.00	31.79	29.41	25.98	25.83	25.75	25.74	26.08	26.52	26.21	15
16	26.07	25.59	26.02	34.06	29.38	25.85	26.05	25.74	25.71	26.20	26.53	26.21	16
17	26.07	25.56	26.06	38.38	29.33	25.74	26.04	25.75	25.70	26.39	26.52	26.23	17
18	26.07	25.54	26.06	38.38	29.31	25.60	26.26	26.00	25.69	26.41	26.51	26.24	18
19	26.09	25.54	26.08	37.89	29.33	25.58	26.56	26.30	25.71	26.42	26.50	26.23	19
20	26.12	25.53	26.07	34.60	28.64	25.72	26.56	26.30	25.72	26.43	26.46	26.23	20
21	26.11	25.53	26.07	31.56	27.64	26.85	26.55	26.45	25.73	26.42	26.19	26.20	21
22	26.07	25.53	26.06	29.60	27.52	28.92	26.54	27.61	25.79	26.40	26.01	26.21	22
23	26.05	25.54	26.04	28.42	27.04	28.36	26.56	27.87	26.00	26.42	25.99	26.19	23
24	26.07	25.52	26.01	28.04	26.60	26.99	26.54	27.34	25.98	26.42	25.94	26.21	24
25	26.09	25.54	26.00	28.00	26.08	26.57	26.55	26.91	26.00	26.45	25.92	26.21	25
26	26.10	25.55	26.03	27.94	26.21	26.26	26.57	26.54	26.01	26.43	25.91	26.23	26
27	26.13	25.54	26.04	27.86	29.61	25.80	26.56	26.50	26.00	26.43	25.93	26.08	27
28	26.12	25.55	26.04	27.79	31.57	25.71	26.55	26.51	25.99	26.43	25.94	25.94	28
29	26.08	25.56	26.02	27.87		25.60	26.11	26.51	26.01	26.42	25.97	25.92	29
30	26.09	25.55	26.02	28.22		25.51	26.03	26.52	26.02	26.42	25.95	25.90	30
31	26.13		25.99	28.35		25.40		26.44		26.43	25.96		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E -- ESTIMATED
 NR -- NO RECORD
 NF -- NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-73	0015	38.69	2-12-73	1430	30.82	2-28-73	0745	31.67			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 22 01	121 38 43	SW 33 18N 3E		102.25	12-23-1955	JAN 1944-DATE	MAR 29-MAY 37 #	1929		0.00	USED
							OCT 37-APR 39	1929		-2.91	USCGS
							NOV 39-JUL 40				
							OCT 40-JUL 43				
							OCT 43-DATE				

Station located near highway bridge, 2.7 miles east of Gridley. Subsequent to 1962, tabulations include all left-bank overflow. Records of discharge published prior to 1963 listed only that water in the main channel. Drainage area is 3,676 square miles.

- Flood season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A05135	FEATHER RIVER AT YUBA CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.23	41.19	40.81	41.46	45.84	51.17	41.84	41.31	41.33	40.66	41.61	40.91	1
2	41.21	40.96	40.81	41.45	45.63	49.92	41.66	41.27	41.04	40.62	42.21	40.88	2
3	41.21	40.87	40.80	41.46	45.52	49.39	41.53	41.28	40.87	40.61	42.58	40.90	3
4	41.20	40.81	40.81	41.67	46.05	49.57	41.42	41.30	40.78	40.62	42.39	41.07	4
5	41.19	40.74	40.81	42.06	46.01	49.08	41.33	41.28	40.74	40.60	42.27	41.18	5
6	41.19	40.69	40.95	42.19	46.24	49.01	41.23	41.23	40.72	40.60	42.25	41.24	6
7	41.21	40.68	40.95	42.56	47.12	49.53	41.11	41.20	40.70	40.62	42.25	41.28	7
8	41.20	40.71	41.02	43.42	46.93	49.20	41.02	41.14	40.68	40.60	42.18	41.29	8
9	41.18	40.73	41.17	44.52	46.64	48.89	40.97	41.06	40.69	40.59	42.01	41.26	9
10	41.24	40.78	41.22	45.98	48.34	47.77	40.70	41.00	40.67	40.62	41.97	41.24	10
11	41.31	41.04	41.22	45.95	50.08	47.03	40.54	40.97	40.67	40.62	41.94	41.27	11
12	41.34	41.06	41.22	50.66	49.45	45.44	40.47	40.96	40.70	40.66	41.92	41.30	12
13	41.31	41.02	41.10	52.33	48.77	44.29	40.43	40.91	40.68	40.70	41.92	41.35	13
14	41.30	41.29	41.05	50.48	48.20	43.37	40.41	40.76	40.68	40.71	41.81	41.37	14
15	41.28	41.72	41.04	49.66	48.03	43.00	40.70	40.69	40.54	40.71	41.63	41.37	15
16	41.26	41.83	41.05	52.20	47.15	42.45	41.27	40.63	40.41	40.74	41.58	41.34	16
17	41.26	41.79	41.45	57.72	46.74	42.35	41.56	40.57	40.34	41.07	41.53	41.32	17
18	41.23	41.45	42.31	58.53	46.52	42.26	41.59	40.55	40.30	41.33	41.46	41.33	18
19	41.23	41.22	42.66	58.66	46.42	42.16	41.91	40.90	40.26	41.38	41.41	41.34	19
20	41.25	41.12	42.81	56.13	46.18	42.13	42.14	41.24	40.25	41.39	41.46	41.35	20
21	41.26	41.04	42.47	52.45	44.74	42.33	42.16	41.32	40.25	41.40	41.42	41.34	21
22	41.24	40.96	42.24	48.70	44.37	45.07	42.11	41.73	40.24	41.39	41.18	41.34	22
23	41.20	40.92	41.89	46.29	44.06	45.73	42.08	43.28	40.40	41.39	41.03	41.36	23
24	41.17	40.89	41.74	45.39	43.63	44.10	42.05	43.06	40.60	41.39	40.95	41.32	24
25	41.20	40.87	41.65	45.39	43.42	43.26	42.02	42.59	40.65	41.41	40.91	40.30	25
26	41.22	40.86	41.60	45.44	43.16	43.02	42.00	42.05	40.67	41.42	40.88	41.29	26
27	41.25	40.84	41.59	45.10	45.53	42.50	42.00	41.67	40.68	41.41	40.86	41.27	27
28	41.26	40.82	41.58	44.80	51.90	42.00	41.98	41.58	40.66	41.40	40.87	41.14	28
29	41.22	40.82	41.59	44.67		41.82	41.85	41.52	40.65	41.22	40.89	41.02	29
30	41.18	40.82	41.56	46.03		41.71	41.45	41.49	40.66	41.28	40.89	40.96	30
31	41.22		41.51	46.01		41.72		41.49		41.37	40.89		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-13-73	0230	52.88	1-19-73	1500	58.99	2-11-73	1500	50.28	2-28-73	1715	52.42

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1.4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 08 20	121 36 17	NE 23 15N 3E		82.42	12-24-1955	JUL 44-OCT 45 8 JAN 46-SEPT 63	NOV 1943-DATE	1943	1943	0.00	USED
										-3.0	USCGS

Station located at Sacramento Northern Railroad Bridge. Backwater from Yuba River at times affects stage-discharge relationship. Drainage area is 3,977 square miles.

8 - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A05120	FEATHER RIVER BELOW SHANGHAI BEND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	35.61	35.47	35.09	35.83	41.10	47.31	36.95	35.40	35.03	34.50	35.93	35.17	1
2	35.58	35.15	35.09	35.85	41.33	41.78	36.61	35.40	34.72	34.47	36.51	35.13	2
3	35.59	34.99	35.07	35.88	41.16	41.02	36.47	35.44	34.63	34.49	36.82	35.27	3
4	35.56	34.97	35.08	36.29	41.86	41.36	36.32	35.46	34.62	34.52	36.47	35.45	4
5	35.56	34.91	35.10	36.67	41.87	41.72	36.23	35.39	34.59	34.47	36.41	35.50	5
6	35.58	34.88	35.22	36.79	41.96	41.86	36.12	35.33	34.58	34.50	36.41	35.50	6
7	35.59	34.95	35.22	37.36	42.94	41.20	35.96	35.29	34.54	34.55	36.42	35.51	7
8	35.58	35.03	35.37	38.20	42.85	40.99	35.89	34.76	34.51	34.51	36.29	35.51	8
9	35.56	35.04	35.52	39.45	42.43	40.79	35.75	34.65	34.52	34.52	36.12	35.47	9
10	35.68	35.15	35.53	41.29	44.28	41.20	34.90	34.60	34.49	34.50	36.14	35.46	10
11	35.76	35.42	35.51	41.24	46.28	41.44	34.83	34.61	34.50	34.45	36.10	35.52	11
12	35.76	35.38	35.46	46.22	45.66	41.74	34.79	34.61	34.53	34.51	36.08	35.55	12
13	35.71	35.24	35.24	NR	44.84	41.29	34.74	34.46	34.50	34.55	36.10	35.61	13
14	35.70	35.78	35.20	NR	44.22	41.04	34.77	34.29	34.52	34.52	35.88	35.62	14
15	35.68	36.25	35.21	NR	44.16	41.20	35.33	34.30	34.25	34.53	35.74	35.61	15
16	35.66	36.45	35.25	NR	43.12	42.20	35.79	34.24	34.17	34.60	35.74	35.56	16
17	35.67	36.21	36.13	NR	42.60	43.06	35.80	34.18	34.17	35.36	35.49	35.58	17
18	35.62	35.72	36.90	NR	42.32	42.79	35.77	34.23	34.14	35.48	35.40	35.59	18
19	35.64	35.49	37.59	NR	42.17	42.25	36.31	34.87	34.09	35.53	35.37	35.60	19
20	35.66	35.40	37.38	NR	41.95	41.46	36.40	34.95	34.11	35.54	35.66	35.64	20
21	35.64	35.28	37.11	48.91	40.19	40.92	36.37	34.98	34.10	35.56	35.50	35.61	21
22	35.59	35.19	36.76	45.10	39.80	39.86	36.29	35.85	34.09	35.57	35.19	35.64	22
23	35.55	35.15	36.25	42.52	39.32	39.63	36.26	37.36	34.39	35.55	35.14	35.65	23
24	35.53	35.14	36.13	41.43	38.77	39.17	36.21	36.81	34.52	35.55	35.09	35.60	24
25	35.59	35.13	36.06	41.21	38.75	38.75	36.19	36.21	34.49	35.56	35.08	35.60	25
26	35.60	35.12	36.02	41.21	38.19	38.19	36.17	35.58	34.48	35.57	35.06	35.62	26
27	35.63	35.11	36.02	40.95	41.18	37.69	36.16	35.37	34.49	35.58	35.06	35.55	27
28	35.64	35.10	36.03	40.57	47.77	36.91	36.12	35.40	34.45	35.37	35.11	35.34	28
29	35.55	35.10	36.02	40.37		36.78	35.85	35.33	34.46	34.91	35.13	35.24	29
30	35.52	35.10	35.96	40.35		36.65	35.42	35.34	34.50	35.45	35.11	35.22	30
31	35.58		35.87	40.35		36.95		35.34		35.53	35.14		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-11-73	1615	46.51	2-28-73	1945	48.41						

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 04 44	121 36 08	NE 11 14N 3E		76.8	12-24-1955	JUN 44-OCT 45 8 JAN 46-DATE	NOV 26-MAY 37 # OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43 # OCT 43-DATE	1926	1926	0.00 -3.01	USED USCGS

Station located approximately 4 miles south of Yuba City. Flow partly regulated by reservoirs and powerplants. Drainage area is 5,337 square miles.

8 - Irrigation season only.

- Flood season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A05103	FEATHER RIVER AT NICOLAUS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	24.65	24.57	24.28	24.98	34.06	39.05	25.74	23.92	23.59	22.72	23.84	23.70	1
2	24.62	24.41	24.26	25.02	33.60	37.83	25.43	23.85	23.29	22.73	24.22	23.71	2
3	24.60	24.25	24.20	25.18	32.95	37.27	25.27	23.86	23.13	22.72	24.61	23.69	3
4	24.58	24.18	24.23	25.46	33.14	37.49	25.11	23.87	23.05	22.71	24.79	23.79	4
5	24.57	24.14	24.23	25.90	33.53	37.29	25.00	23.87	23.00	22.71	24.70	23.87	5
6	24.57	24.10	24.25	25.98	33.28	36.72	24.97	23.79	22.97	22.67	24.66	23.93	6
7	24.59	24.08	24.33	26.36	34.24	37.04	24.85	23.79	22.94	22.67	24.66	23.98	7
8	24.58	24.09	24.44	27.15	35.31	36.86	24.73	23.45	22.91	22.68	24.64	24.03	8
9	24.57	24.12	24.59	28.28	35.53	36.60	24.67	23.21	22.90	22.67	24.50	24.03	9
10	24.57	24.17	24.61	30.99	36.81	35.90	24.12	23.07	22.87	22.66	24.44	24.02	10
11	24.63	24.27	24.58	31.67	38.79	35.15	23.94	23.04	22.86	22.68	24.44	24.03	11
12	24.68	24.46	24.57	37.23	38.83	34.25	23.82	23.04	22.85	22.71	24.42	24.07	12
13	24.69	24.45	24.33	40.84	37.66	33.04	23.79	22.98	22.83	22.75	24.43	24.11	13
14	24.68	24.48	24.28	39.33	37.06	31.55	23.80	22.67	22.81	22.78	24.40	24.16	14
15	24.67	24.89	24.28	38.00	37.25	29.76	23.94	22.65	22.71	22.80	24.23	24.19	15
16	24.65	25.27	24.31	38.80	36.58	27.85	24.53	22.53	22.47	22.83	24.18	24.19	16
17	24.64	25.62	24.80	42.40	36.11	27.28	24.63	22.49	22.43	22.99	24.12	24.18	17
18	24.63	25.86	26.32	42.94	35.71	26.64	24.53	22.49	22.42	23.38	23.99	24.20	18
19	24.61	25.73	27.24	43.26	35.33	26.19	24.83	22.59	22.40	23.78	23.95	24.21	19
20	24.61	25.29	28.38	42.25	34.94	26.19	25.01	22.98	22.38	23.80	23.96	24.20	20
21	24.62	24.91	28.19	40.53	33.98	26.58	25.02	23.17	22.36	23.81	24.04	24.23	21
22	24.61	24.70	27.71	38.28	33.02	28.85	24.94	23.31	22.35	23.82	23.95	24.25	22
23	24.60	24.55	26.77	36.56	31.92	30.38	24.74	25.04	22.36	23.83	23.77	24.30	23
24	24.58	24.47	26.47	35.80	30.56	29.41	24.78	25.18	22.49	23.83	23.75	24.27	24
25	24.57	24.42	26.19	35.55	29.73	27.87	24.74	24.64	22.62	23.84	23.71	24.28	25
26	24.58	24.39	25.80	35.48	29.30	27.03	24.67	24.10	22.66	23.87	23.69	24.27	26
27	24.59	24.37	25.49	35.09	30.73	26.28	24.64	23.76	22.70	23.89	23.68	24.26	27
28	24.61	24.33	25.32	34.51	37.62	25.62	24.61	23.75	22.71	23.91	23.67	24.13	28
29	24.61	24.31	25.24	33.93		25.48	24.46	23.74	22.70	23.58	23.69	24.01	29
30	24.56	24.30	25.13	34.01		25.36	24.00	23.69	22.70	23.52	23.70	23.96	30
31	24.55		25.05	34.32		25.41		23.67		23.72	23.67		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-20-72	0630	28.49	1-13-73	0830	41.05	1-19-73	1100	43.36	3-01-73	0130	39.51

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 54 00	121 35 00	SE 12 12N 3E	357,000	51.60	12-23-1955	JUN 21-OCT 28 8 JAN 39-DATE	1920-DATE	1920	1920	0.00 -3.30	USED USCG

Station located at State Highway 99 bridge, 2.9 miles below Bear River, 0.5 mile southwest of Nicolaus. Backwater at times affects the stage discharge relationship. Flow partly regulated by reservoirs and powerplants. Maximum discharge of record is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is approximately 5,921 square miles (revised).

8 - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02150	SACRAMENTO RIVER AT VERONA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.17	14.53	18.55	19.17	31.57	33.93	19.88	14.50	16.16	13.40	15.09	15.57	1
2	15.05	14.31	18.43	19.33	31.10	34.13	19.78	14.36	15.86	13.42	15.47	15.37	2
3	14.94	14.16	18.09	19.40	30.34	34.05	19.37	14.10	15.69	13.38	15.79	15.29	3
4	14.88	14.27	17.75	19.39	29.88	34.06	19.01	13.96	15.35	13.33	15.61	15.27	4
5	14.82	14.29	17.42	19.58	30.14	33.87	18.68	13.80	14.94	13.36	15.42	15.27	5
6	14.63	14.61	17.30	19.63	30.18	33.57	18.49	13.74	14.56	13.40	15.35	15.25	6
7	14.38	14.88	17.01	19.72	31.20	33.58	18.28	13.86	14.18	13.42	15.35	15.28	7
8	14.34	14.67	16.74	20.10	32.41	33.53	18.04	13.61	13.95	13.51	15.19	15.42	8
9	14.27	14.47	16.65	20.80	33.08	33.43	17.94	13.26	13.83	13.54	15.01	15.47	9
10	14.34	14.70	16.56	23.33	33.93	33.00	17.44	13.20	13.59	13.65	14.97	15.36	10
11	14.64	15.23	16.31	26.50	34.59	32.53	16.84	13.25	13.40	13.67	15.08	15.38	11
12	14.86	16.24	16.30	29.96	34.75	31.91	16.83	13.34	13.26	13.67	15.17	15.54	12
13	15.12	17.65	16.06	33.71	34.41	31.00	16.92	13.52	13.11	13.71	15.18	15.73	13
14	15.11	18.15	15.92	34.88	34.24	29.62	16.87	13.83	13.07	13.80	15.03	15.86	14
15	15.18	19.93	15.69	34.67	34.25	27.83	17.05	14.12	13.10	13.90	14.81	16.00	15
16	15.24	22.41	15.71	34.57	33.95	25.58	17.30	14.25	13.05	14.03	14.86	15.99	16
17	15.50	23.54	16.07	35.38	33.71	24.22	17.23	14.35	13.15	14.24	14.90	16.02	17
18	15.83	23.72	18.78	35.86	33.42	22.99	17.03	14.82	13.19	14.68	14.85	16.13	18
19	15.78	22.49	23.09	36.41	33.06	21.94	16.98	15.46	13.12	14.83	14.93	16.20	19
20	15.59	21.66	25.22	36.22	32.65	21.32	16.97	16.07	13.05	14.89	15.05	16.14	20
21	15.32	21.05	25.42	35.72	31.99	21.67	16.69	16.09	12.96	14.93	15.22	16.09	21
22	15.16	20.56	25.05	34.98	31.03	23.95	16.45	16.19	12.87	15.02	15.07	16.11	22
23	15.06	20.10	23.94	34.27	29.79	25.86	16.00	17.05	12.87	15.04	14.98	16.23	23
24	14.96	19.71	23.65	33.81	28.18	25.86	15.63	17.66	13.20	15.08	15.01	16.26	24
25	14.80	19.45	23.12	33.58	27.22	24.31	15.35	17.49	13.50	15.08	15.07	16.32	25
26	14.80	19.28	22.34	33.46	26.89	22.79	14.97	17.38	13.65	15.06	15.26	16.25	26
27	14.81	19.10	21.36	33.12	27.72	21.59	14.73	17.53	13.57	15.07	15.34	16.10	27
28	14.79	18.89	20.53	32.59	31.77	20.57	14.84	17.36	13.53	15.09	15.44	15.78	28
29	14.78	18.78	19.91	31.98	19.94	19.94	14.96	17.05	13.45	14.89	15.55	15.55	29
30	14.60	18.64	19.49	31.61	19.61	19.61	14.68	16.70	13.34	14.76	15.62	15.43	30
31	14.53		19.24	31.70	19.55	19.55		16.42		15.06	15.64		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-20-72	2400	25.52	1-14-73	0630	34.90	1-19-73	1130	36.45	2-12-73	0430	34.85

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 46 50	121 36 10	SE 23 11N 3E	79,200	41.20	3-1-1940	MAY 26-OCT 28 8 MAY 29-DATE	MAY 1926-DATE	1926		-0.06 -3.00	USED USCGS

Station located 0.8 mile southeast of Verona, 1.0 mile below the Feather River. Records furnished by U. S. Geological Survey. Drainage area is 21,275 square miles.

8 - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02105	SACRAMENTO RIVER AT SACRAMENTO WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.48	7.45	11.23	12.64	23.12	25.77	12.13	8.44	10.35	NR	8.55	8.77	1
2	9.34	7.64	11.49	12.85	22.78	26.02	12.05	8.39	10.02	NR	8.68	8.61	2
3	9.31	NR	11.42	12.86	22.17	25.89	11.78	8.25	9.81	NR	8.85	8.51	3
4	9.25	NR	11.32	12.52	21.86	25.92	11.55	8.37	9.55	NR	8.77	8.68	4
5	8.96	NR	11.03	12.43	21.88	25.77	11.33	8.18	9.17	NR	8.74	8.87	5
6	8.77	NR	11.14	12.60	21.95	25.46	11.30	8.05	8.69	NR	8.81	8.53	6
7	8.77	9.00	10.96	12.74	22.87	25.40	11.11	8.03	8.32	7.85	8.84	8.42	7
8	8.81	8.83	10.66	12.98	23.82	25.51	10.82	7.77	8.09	7.89	8.78	8.40	8
9	8.77	8.57	10.40	13.93	24.43	25.38	10.74	NR	8.17	7.95	8.64	8.53	9
10	8.82	8.87	10.23	15.43	25.73	24.96	10.43	NR	8.23	8.17	8.47	8.88	10
11	9.01	9.37	10.12	17.87	26.75	24.54	9.99	NR	8.29	8.31	8.52	8.72	11
12	9.05	9.61	10.01	21.11	26.82	24.02	9.96	7.47	8.22	8.37	8.64	8.59	12
13	9.13	10.58	9.83	27.40	26.99	23.23	10.05	7.71	8.07	8.54	8.56	8.91	13
14	9.16	11.37	9.68	29.45	27.27	22.09	9.99	8.02	7.98	8.60	8.42	9.00	14
15	9.24	12.27	9.51	29.44	27.18	20.59	10.06	8.15	7.82	8.56	8.31	9.05	15
16	9.23	14.81	9.62	28.33	26.20	18.31	10.27	8.17	7.96	8.51	8.28	9.12	16
17	9.21	15.78	10.06	28.50	25.59	16.66	10.33	8.25	7.84	8.50	8.25	9.12	17
18	9.21	16.00	11.43	29.63	25.31	15.55	10.17	8.58	7.53	8.72	8.24	9.19	18
19	8.96	15.12	14.60	30.51	25.01	14.68	10.03	9.16	NR	8.63	8.23	9.30	19
20	8.82	14.28	16.63	29.75	24.67	14.29	9.90	9.43	NR	8.48	8.28	9.22	20
21	8.69	13.83	17.23	28.56	24.12	14.27	9.71	9.39	NR	8.24	8.41	9.12	21
22	8.50	13.40	17.25	27.19	23.25	15.71	9.59	9.45	NR	8.19	8.37	9.20	22
23	8.33	12.95	16.42	26.24	22.19	17.34	9.38	10.03	NR	8.30	8.38	9.27	23
24	8.30	12.53	15.94	25.62	20.86	17.73	9.04	10.55	NR	8.26	8.43	9.37	24
25	8.22	12.19	15.58	25.40	19.74	16.64	8.79	10.41	NR	8.32	8.56	9.27	25
26	8.18	11.97	14.93	25.29	19.38	15.35	8.55	10.32	NR	8.48	8.69	9.18	26
27	7.93	11.87	14.28	24.75	20.08	14.31	8.46	10.35	NR	8.85	8.83	9.06	27
28	7.81	11.65	13.66	24.13	23.60	13.28	8.61	10.24	NR	8.91	8.68	8.92	28
29	NR	11.54	13.17	23.61		12.38	8.69	10.16	NR	8.73	8.72	8.80	29
30	NR	11.45	12.89	23.23		11.98	8.56	10.17	NR	8.53	8.94	8.84	30
31	NR		12.66	23.23		11.94		10.38		8.57	8.96		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-14-73	1600	29.61	1-19-73	1115	30.60	2-14-73	1615	27.30	3-2-73	1045	26.09

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 36 09	121 33 12	NE 29 9N 4E		33.1	12-23-1955		NOV 26-JULY 37# OCT 37-DATE	1926		0.00	USED
								1926		-3.07	USCG
									1964	-3.49	USCG
								1964		-3.00	USCG

Station located 100 feet below weir, 4 miles northwest of Sacramento.
 # - Flood season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02100	SACRAMENTO RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.78	4.72	7.55	8.81	18.92	21.56	8.14	4.81	6.69	4.75	4.90	5.05	1
2	5.65	4.63	7.63	9.01	18.62	21.81	8.03	4.78	6.37	4.73	4.98	4.91	2
3	5.64	4.72	7.58	9.02	18.06	21.70	7.79	4.67	6.15	4.56	5.11	4.81	3
4	5.59	4.98	7.53	8.65	17.76	21.72	7.05	4.85	5.89	4.40	5.05	5.01	4
5	5.28	4.85	7.22	8.52	17.76	21.56	7.38	4.66	5.52	4.39	5.05	5.20	5
6	5.08	4.89	7.36	8.71	17.82	21.26	7.40	4.51	5.04	4.49	5.14	4.81	6
7	5.12	5.30	7.19	8.86	18.66	21.19	7.21	4.45	4.69	4.37	5.17	4.69	7
8	5.17	5.11	6.89	9.11	19.57	21.32	6.91	4.16	4.48	4.40	5.13	4.65	8
9	5.14	4.85	6.59	10.07	20.17	21.17	6.83	3.79	4.59	4.45	4.98	4.82	9
10	5.18	5.16	6.41	11.45	21.51	20.78	6.56	3.58	4.70	4.68	4.81	5.22	10
11	5.35	5.65	6.29	13.72	22.56	20.37	6.18	3.65	4.79	4.83	4.87	5.02	11
12	5.37	5.78	6.19	16.86	22.63	19.88	6.16	3.90	4.73	4.89	4.99	4.85	12
13	5.41	6.69	5.99	23.40	22.89	19.14	6.24	4.15	4.59	5.08	4.88	5.19	13
14	5.44	7.48	5.84	25.61	23.25	17.67	6.15	4.42	4.50	5.14	4.75	5.25	14
15	5.52	8.32	5.69	25.59	23.14	16.59	6.22	4.49	4.33	5.08	4.67	5.28	15
16	5.49	10.86	5.82	24.37	22.05	14.35	6.41	4.48	4.51	5.01	4.62	5.37	16
17	5.48	11.80	6.28	24.49	21.37	12.69	6.50	4.55	4.38	4.97	4.58	5.35	17
18	5.75	12.01	7.51	25.73	21.08	11.61	6.34	4.86	4.11	5.15	4.57	5.40	18
19	5.93	11.21	10.51	26.66	20.80	10.79	6.19	5.43	4.02	5.01	4.54	5.52	19
20	5.87	10.41	12.47	25.82	20.47	10.46	6.01	5.59	3.95	4.84	4.58	5.43	20
21	5.66	9.99	13.08	24.56	19.95	10.39	5.86	5.54	3.87	4.56	4.71	5.33	21
22	5.42	9.56	13.19	23.08	19.11	11.66	5.77	5.59	4.04	4.49	4.67	5.42	22
23	5.32	9.11	12.44	22.11	18.10	13.20	5.59	6.11	3.82	4.61	4.70	5.49	23
24	5.28	8.67	11.94	21.47	16.85	13.65	5.27	6.59	3.88	4.55	4.76	5.59	24
25	5.28	8.31	11.58	21.25	15.74	12.66	5.03	6.47	4.17	4.62	4.90	5.47	25
26	5.37	8.08	10.99	21.16	15.39	11.40	4.82	6.41	4.43	4.82	5.04	5.36	26
27	5.36	7.89	10.41	20.61	16.07	10.41	4.79	6.41	4.58	5.24	5.16	5.25	27
28	5.26	7.75	9.83	19.94	19.45	9.38	4.95	6.31	4.91	5.31	4.97	5.15	28
29	4.95	7.62	9.34	19.45		8.41	4.99	6.27	5.05	5.14	5.02	5.07	29
30	4.52	7.54	9.06	19.05		8.00	4.91	6.41	4.91	4.93	5.26	5.14	30
31	4.65		8.84	19.01		7.98		6.69		4.93	5.26		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-14-73	1715	25.78	1-19-73	1130	26.74	2-14-73	1545	23.29	3-2-73	0615	21.84

E - ESTIMATED
 NR - NO RECORD
 NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FRDM	TO		
38 35 20	121 30 15	NW 35 9N 4E	104,000	30.14	11-21-1950	04-05 JUN 21-NOV 21 MAY 24-DEC 42 <i>Ø</i> MAY 43-DATE	JAN 04-JULY 05 20-DATE	1904	1956	0.12	USCGS
								1956		0.00	USCGS
								1956		2.98	USED
									1965	-0.23	USCGS
										0.00	USCGS

Station located 1,000 feet above I Street Bridge, 0.5 mile below the American River. Below approximately 30,000 cfs the stage-discharge relationship is affected by tidal influence. Maximum discharge listed at site and datum then in use. Drainage area is 23,530 square miles.

Ø - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A07140	AMERICAN RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18.48	17.91	18.25	19.55	23.00	25.58	18.27	18.23	19.00	18.72	17.86	17.87	1
2	18.50	17.92	18.25	19.56	22.79	25.81	18.28	18.17	19.00	18.73	17.87	17.86	2
3	18.51	17.95	18.25	19.14	22.39	25.67	18.27	18.18	19.00	18.94	17.87	17.86	3
4	18.27	17.98	18.25	18.45	22.17	25.68	18.27	18.20	18.99	18.99	17.88	17.86	4
5	18.23	17.93	18.26	18.22	22.12	25.53	18.27	18.19	18.99	18.99	17.88	17.87	5
6	18.21	17.92	18.26	18.62	22.20	25.26	18.26	18.18	18.99	19.01	17.86	17.87	6
7	18.23	17.95	18.25	18.75	22.77	25.20	18.29	18.17	18.99	19.01	17.87	17.87	7
8	18.23	17.92	18.27	18.81	23.54	25.35	18.22	18.16	18.99	19.01	17.87	17.87	8
9	18.28	17.92	18.20	18.97	24.06	25.19	18.22	18.18	18.99	19.01	17.88	17.86	9
10	18.28	18.02	18.20	18.86	25.54	24.86	18.22	18.19	19.00	19.00	17.87	17.86	10
11	18.34	18.07	18.19	19.27	26.52	24.53	18.24	18.18	19.01	18.99	17.88	17.86	11
12	18.28	17.93	18.19	21.69	26.55	24.14	18.19	18.17	19.01	19.00	17.86	17.38	12
13	18.27	17.98	18.19	30.24	27.53	23.57	18.22	18.17	18.76	18.99	17.85	17.86	13
14	18.30	18.00	18.22	32.16	28.04	22.81	18.22	18.17	18.73	18.78	17.84	17.87	14
15	18.32	18.24	18.26	31.89	27.76	21.96	18.20	18.17	18.73	18.75	17.84	17.87	15
16	18.31	18.96	18.26	29.31	26.19	20.22	18.21	18.18	18.73	18.74	17.84	17.87	16
17	18.29	19.05	18.29	29.23	25.40	19.65	18.24	18.17	18.73	18.73	17.85	17.88	17
18	18.25	19.05	18.24	31.04	25.16	19.58	18.21	18.16	18.72	18.72	17.85	17.88	18
19	18.26	19.05	18.23	32.05	24.93	19.59	18.20	18.17	18.71	18.30	17.86	17.88	19
20	18.22	19.05	18.23	30.78	24.66	19.59	18.22	18.18	18.71	18.19	17.85	17.89	20
21	18.21	19.04	18.92	29.03	24.17	19.59	18.19	18.17	18.71	17.95	17.67	17.88	21
22	17.97	18.81	19.57	27.24	23.49	19.60	18.18	18.17	18.72	17.90	17.56	17.90	22
23	17.92	18.54	19.60	26.15	22.79	19.65	18.19	18.41	18.73	17.89	17.55	17.91	23
24	17.91	18.28	19.60	25.53	22.05	19.74	18.19	18.47	18.73	17.88	17.77	17.91	24
25	17.92	18.23	19.60	25.34	21.52	19.63	18.19	18.46	18.73	17.87	17.86	17.91	25
26	17.92	18.21	19.57	25.26	21.42	19.57	18.18	18.46	18.72	17.87	17.87	17.90	26
27	17.92	18.22	19.57	24.52	21.85	19.56	18.19	18.45	18.72	17.86	17.87	17.89	27
28	17.92	18.24	19.56	23.86	23.80	19.15	18.19	18.45	18.71	17.87	17.86	17.89	28
29	17.93	18.26	19.58	23.43		18.49	18.20	18.44	18.72	17.88	17.85	17.89	29
30	17.92	18.26	19.58	23.10		18.29	18.19	18.44	18.72	17.87	17.85	17.88	30
31	17.92		19.56	23.06		18.28		18.88		17.87	17.85		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E -- ESTIMATED
 NR -- NO RECORD
 NF -- NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-14-73	1845	32.30	1-19-73	1015	32.17	2-14-73	1700	28.07			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 34 08	121 25 22	SW 3 8N 5E	176,000	45.73	11-21-1950	JUL 21-OCT 21 MAY 24-DEC 42 ♂ MAY 43-SEPT 59	JUL 21-OCT 21 JUN 24-NOV 24 JUN 1925-DATE	1921 1921		0.00 -3.07	USED USCC

Station located at H Street Bridge. Backwater at times affects the stage-discharge relationship. Maximum discharge of record listed is for period 1921, 1929-1932, 1934 to date. Maximum gage height listed does not necessarily indicate maximum discharge. Drainage area is 1,937 square miles.

♂ - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A81820	SCOTTS CREEK AT UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.09	3.21	5.70	6.46	8.58	10.05	8.97	8.84	7.88	6.55			1
2	1.13	3.29	5.64	6.40	8.54 E	9.72	9.00	8.54 E	7.83	6.50			2
3	0.99	3.40	5.61	6.34 E	N	9.59	9.00	8.76	7.80	6.45			3
4	1.07	3.57	5.60	6.28 E		9.56	9.01	8.69	7.76	6.37			4
5	1.16	3.66	5.63	6.20 E	O	9.41	9.01	8.71	7.73	6.33			5
6	1.25	3.73	5.73	6.15 E		9.52	8.99	8.66	7.69	6.24			6
7	1.31	3.86	5.81	6.11 E	R	9.51	9.01	8.62	7.65	6.22			7
8	1.37	3.97	5.38	6.09 E	E	9.40	9.01	8.61	7.61	6.17			8
9	1.43	4.05	5.31	6.09 E		9.23	9.01	8.59	7.53	6.14			9
10	1.49	4.24	5.29	10.00 E	C	9.14	9.00	8.58	7.52	6.08	N	N	10
					O								
11	1.58	4.62	5.27	11.19 E		9.13	9.01	8.56	7.47	6.05	O	O	11
12	1.69	4.77	5.26	15.15 E	R	9.03	9.00	8.53	7.38	6.02			12
13	1.80	5.39	5.26	13.70 E	D	8.91	8.99	8.50	7.29	5.98			13
14	1.91	7.02	5.26	11.11 E		8.91	8.99	8.47	7.23	5.93	R	R	14
15	2.04	6.79	4.78	9.27 E	9.79	8.89	9.00	8.45	7.18	5.89	E	E	15
16	2.13	6.88	4.90	12.94	9.55	8.87	9.00	8.42	7.11	5.84			16
17	2.21	6.53	8.53	13.88	9.36	8.82	8.92	8.39	7.07	5.82	C	C	17
18	2.28	6.43	9.24	13.91	9.20	8.86	8.91	8.36	7.06	5.77			18
19	2.35	6.44	9.15	13.01	9.06	8.99	8.92	8.29	7.03	N	O	O	19
20	2.42	6.42	8.37	10.97	8.94	9.22	8.96	8.28	7.00				20
										O	R	R	
21	2.49	6.39	7.87	9.89	8.87	9.48	8.96	8.25	6.97				21
22	2.56	6.37	7.89	9.24	8.83	9.56	8.94	8.20	6.90		D	D	22
23	2.63	6.34	7.80	8.87	8.83	9.45	8.94	8.14	6.87	R			23
24	2.69	6.32	7.71	8.71	9.30	9.30	8.94	8.13	6.82	E			24
25	2.75	6.30	7.32	8.72	10.31	9.20	8.94	8.06	6.77	C			25
26	2.81	6.29	7.17	8.56	10.40	9.12	8.93	8.04	6.75	O			26
27	2.87	6.28	7.04	8.44	10.53	9.01	8.91	8.02	6.74				27
28	2.92	6.25	6.86	8.32	10.43	8.95	8.89	8.00	6.68	R			28
29	2.98	6.04	6.74	8.42		8.96	8.87	7.98	6.62	D			29
30	3.04	5.80	6.64	8.63		8.99	8.85	7.95	6.57				30
31	3.12		6.55	8.65		9.00		7.92					31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

E - ESTIMATED
 NR - NO RECORD
 NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 09 32	122 55 13	SW12 15N 10W		22.14	12/23/64		NOV 59-DATE	1959		1321.2	USCGS

Station located 0.1 mi. above State Highway 29 Bridge, 0.7 mi. SW of Upper Lake. Gage height reflects the elevation of Clear Lake as well as flow of Scotts Creek.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.07	10.45	12.41	11.80	14.87	17.68	17.15	12.84	14.68	10.32	9.82	10.15	1
2	11.06	10.50	12.35	11.63	14.69	17.50	16.99	12.79	14.76	10.35	9.84	10.28	2
3	11.31	10.52	12.27	NR	14.59	17.12	16.84	12.78	14.36	10.14	9.78	10.46	3
4	11.76	10.64	12.18	11.70	14.42	17.15	16.79	12.55	13.90	10.20	9.81	10.33	4
5	11.70	10.72	12.14	11.72	14.11	17.26	16.72	12.47	13.80	10.15	9.83	10.18	5
6	11.51	10.60	12.12	11.79	14.02	16.93	16.43	11.99	13.47	10.00	10.01	10.12	6
7	11.31	10.54	12.13	11.79	14.73	16.62	15.97	11.80	13.43	9.89	9.78	10.22	7
8	11.29	10.58	12.14	11.58	15.27	17.00	15.66	11.73	13.39	9.86	9.66	10.29	8
9	11.29	10.62	12.14	11.58	14.90	18.00	15.44	11.57	13.31	9.95	9.69	10.47	9
10	11.26	10.62	12.14	11.89	14.70	18.83	15.08	11.52	13.29	9.95	9.66	10.50	10
11	11.21	10.91	12.14	12.79	15.31	18.63	14.71	11.44	13.38	9.84	9.84	10.44	11
12	11.01	11.13	12.11	13.43	17.92	18.43	14.35	11.37	13.47	9.85	10.06	10.46	12
13	10.84	11.21	12.09	14.01	20.18	18.09	14.04	11.29	13.10	9.84	9.99	10.34	13
14	10.78	11.41	12.06	NR	20.41	17.52	13.89	11.32	12.39	9.77	9.90	10.42	14
15	10.82	11.59	12.07	NR	20.46	17.00	14.06	11.18	11.85	9.94	9.82	10.48	15
16	10.73	11.93	12.02	13.65	21.09	16.66	14.07	11.27	11.64	10.05	9.95	10.68	16
17	10.66	12.38	11.91	14.30	21.50	16.33	13.90	11.90	11.50	10.08	9.96	10.74	17
18	10.87	12.75	11.70	16.37	21.51	16.49	13.63	13.52	11.37	9.95	9.91	10.69	18
19	10.93	12.77	11.74	16.34	20.88	16.50	13.12	14.10	11.02	9.73	9.83	10.62	19
20	10.77	12.54	12.03	16.60	20.10	16.49	12.89	14.18	10.79	9.82	9.98	10.76	20
21	10.78	12.32	12.35	16.47	19.45	16.66	12.78	14.21	10.71	10.01	9.84	10.82	21
22	11.60	12.36	12.44	16.13	19.12	17.11	12.55	14.44	10.72	10.09	9.65	10.65	22
23	12.12	12.40	12.43	15.85	18.92	17.51	12.46	14.44	10.86	10.23	9.64	10.80	23
24	12.12	12.46	12.38	15.62	18.64	17.86	12.12	13.54	10.85	10.14	9.88	11.00	24
25	12.09	12.52	12.22	15.34	18.22	17.98	11.92	12.87	10.79	10.04	9.99	11.00	25
26	12.21	12.54	12.14	15.07	17.55	18.01	11.80	12.94	10.60	9.77	10.07	11.11	26
27	12.28	12.51	12.05	14.74	16.83	17.96	12.26	13.61	10.47	9.66	10.15	11.08	27
28	12.10	12.46	12.02	14.50	16.71	17.92	12.56	14.32	10.65	9.74	10.22	11.04	28
29	11.15	12.44	11.94	14.24		17.66	12.61	14.36	10.62	9.89	10.08	11.09	29
30	10.68	12.45	11.86	14.12		17.51	12.82	14.06	10.47	9.93	9.96	11.06	30
31	10.42		11.85	14.46		17.36		14.36		9.94	9.94		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E -- ESTIMATED
 NR -- NO RECORD
 NF -- NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 40 34	121 15 55	NW 13 3S 6E	79,000	32.81	12-9-1950	JUL 22-DEC 23 8 JAN 24-FEB 25 JUN 25-OCT 28 8 MAY 29-DATE	JUL 22-DEC 23 8 JAN 24-FEB 25 JUN 25-OCT 28 8 MAY 29-DATE	1931	1959	5.06 0.00 3.3	USCGS USCGS USED

Station located 30 feet above the Durham Ferry Highway Bridge, 3 miles below the Stanislaus River, 3.4 miles northeast of Vernalis. Maximum discharge listed at site then in use and present datum. Records furnished by U. S. Geological Survey. Drainage area is 13,540 square miles.

8 - Irrigation season only.

TABLE B-II (CONT.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	G32100	EAGLE LAKE NEAR SUSANVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.83	10.75	10.86	10.97	11.27 E	11.52	11.69	11.89	11.78	11.54	10.91	10.33	1
2	10.85	10.75	10.86	10.97 E	11.28 E	11.54	11.68	11.89	11.76	11.53	10.89	10.30	2
3	10.83	10.74	10.85	10.98 E	11.29 E	11.54	11.67	11.88	11.74	11.51	10.88	10.29	3
4	10.84	10.78	10.89	10.99 E	11.30 E	11.55	11.67	11.89	11.72	11.50	10.86	10.28	4
5	10.83	10.78	10.86	11.00 E	11.31 E	11.55	11.68	11.89	11.72	11.48	10.85	10.28	5
6	10.81	10.75	10.88	11.01 E	11.32 E	11.56	11.69	11.88	11.71	11.46	10.83	10.27	6
7	10.80	10.78	10.89	11.02 E	11.33 E	11.57	11.70	11.88	11.81	11.45	10.79	10.26	7
8	10.80	10.80	10.88	11.03 E	11.34 E	11.57	11.71	11.88	11.89	11.44	10.77	10.23	8
9	10.80	10.79	10.88	11.04 E	11.34	11.57	11.72	11.87	11.88	11.42	10.75	10.21	9
10	10.79	10.79	10.87	11.05 E	11.40	11.60	11.73	11.87	11.87	11.40	10.73	10.20	10
11	10.81	10.81	10.88	11.06 E	11.42	11.62	11.75	11.86	11.85	11.39	10.72	10.20	11
12	10.82	10.81	10.88	11.07 E	11.43	11.62	11.76	11.86	11.83	11.38	10.70	10.20	12
13	10.82	10.80	10.88	11.08 E	11.42	11.63	11.77	11.86	11.81	11.35	10.68	10.18	13
14	10.82	10.84	10.88	11.09 E	11.43	11.63	11.79	11.86	11.79	11.33	10.67	10.18	14
15	10.83	10.83	10.88	11.10 E	11.43	11.63	11.80	11.86	11.76	11.32	10.65	10.16	15
16	10.83	10.87	10.88	11.11 E	11.43	11.63	11.80	11.86	11.72	11.32	10.62	10.15	16
17	10.86	10.87	10.89	11.12 E	11.43	11.64	11.83	11.86	11.71	11.19	10.59	10.13	17
18	10.85	10.86	10.90	11.13 E	11.43	11.64	11.83	11.86	11.69	11.10	10.57	10.12	18
19	10.86	10.86	10.92	11.14 E	11.43	11.64	11.83	11.85	11.68	11.08	10.53	10.09	19
20	10.85	10.86	10.92	11.15 E	11.43	11.66	11.84	11.84	11.67	11.07	10.51	10.10	20
21	10.84	10.85	10.93	11.16 E	11.44	11.66	11.83	11.83	11.67	11.05	10.49	10.08	21
22	10.84	10.85	10.97	11.17 E	11.44	11.66	11.83	11.82	11.64	11.04	10.47	10.05	22
23	10.84	10.86	10.96	11.18 E	11.44	11.66	11.84	11.80	11.63	11.02	10.45	10.05	23
24	10.82	10.86	10.97	11.19 E	11.45	11.66	11.85	11.77	11.62	11.00	10.43	10.03	24
25	10.82	10.86	10.96	11.20 E	11.47	11.67	11.86	11.81	11.62	10.99	10.41	10.03	25
26	10.82	10.86	10.97	11.21 E	11.48	11.68	11.88	11.79	11.62	10.98	10.40	10.00	26
27	10.80	10.86	10.98	11.22 E	11.49	11.68	11.89	11.78	11.61	10.97	10.40	10.00	27
28	10.79	10.86	10.97	11.23 E	11.51	11.68	11.90	11.77	11.60	10.96	10.39	10.00	28
29	10.78	10.85	10.97	11.24 E		11.67	11.91	11.77	11.58	10.95	10.38	10.00	29
30	10.76	10.85	10.98	11.25 E		11.67	11.90	11.77	11.57	10.94	10.36	9.99	30
31	10.75		10.97	11.26 E		11.67		11.78		10.93	10.36		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E -- ESTIMATED
 NR -- NO RECORD
 NF -- NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
4-28-73	1815	11.96									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 36 45	120 43 34	SW22 32N 11E		12.81	6/10/71		OCT 56-DATE	1956		5095.06	USCGS

Station located on east shore, 14 mi. NW of Susanville.

TABLE B-12

DAILY TIDES

This table shows the water surface elevations for the daily high and low tides or the daily maximum and minimum water surface elevations for days where normal tide patterns did not occur.

The reported elevations are referenced to USC&GS mean sea level datum established at the Golden Gate in 1929. Water surface elevation at each station referenced to this datum is obtained by subtracting the zero of the gage, shown under "Datum of Gage", from the reported elevations.

Example:

1. Pages 162 and 163 "Sacramento River near Freeport". From Page 163 the zero of the gage since 1964 = 0.00' USC&GS datum. Elevations referenced to mean sea level of the Golden Gate are as reported.
2. Pages 164 and 165. "Sacramento River at Snodgrass Slough". From Page 165 the zero of the gage since 1964 = -3.00' USC&GS datum. Elevations referenced to mean sea level at the Golden Gate are obtained by subtracting 3.00 from the reported values.

TABLE R-12 (CONTINUED)

DAILY TIDES

891850 SACRAMENTO RIVER NEAR FREEPORT
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.24 4.71	3.88 4.21	3.78 4.08	2.96 3.08	5.21 5.19	5.49 6.12	6.20 6.41	6.50 7.12	15.18A	15.02A	16.77A	17.56A	1
2	5.16 4.53	3.77 3.94	3.68 4.09	2.92	5.25 5.38	5.63 6.32	6.31 6.59	6.71 7.42	15.01A	14.66A	17.67A	17.53A	2
3	5.02 4.74	3.76 4.04	2.98 3.05	3.73 4.42	5.27 5.36	5.64 6.37	6.60 6.68	6.93 7.35	14.65A	14.15A	17.41A	17.58A	3
4	5.04 4.72	3.79	3.23 3.40	4.04 4.69	5.34 5.51	5.78 6.43	6.36 6.36	6.63 6.99	14.15A	13.98A	17.61A	17.48A	4
5	3.75 3.52	4.59 4.48	3.28 3.27	3.89 4.43	5.08 5.17	5.44 6.10	6.01 6.24	6.41 6.98	14.14A	14.02A	17.53A	17.21A	5
6	3.45 3.35	4.31 4.48	3.02 3.33	3.73 4.63	5.01 5.50	5.74 6.34	6.09 6.41	6.54 7.12	13.97A	14.40A	17.22A	17.07A	6
7	3.34 3.44	4.29 4.86	3.28 3.84	4.02 5.12	4.96 5.28	5.49 6.29	6.31 6.51	6.75 7.08	14.41A	15.27A	17.16A	17.01A	7
8	3.53 3.58	4.36 4.80	3.47 3.58	3.95 4.56	4.84 5.00	5.30 5.77	6.41 6.72	6.88 7.37	15.27A	15.88A	17.06A	17.27A	8
9	3.43 3.54	4.17 4.89	3.05 3.41	3.67 4.45	4.44 4.73	4.95 5.43	6.92A 8.39A		15.88A	16.59A	17.20A	16.89A	9
10	3.47 3.65	4.18 4.88	3.10 3.91	4.07 4.78	4.27 4.56	4.82 5.14	8.14A 9.44A		16.61A	17.95A	16.90A	16.54A	10
11	3.48 3.91	4.26 4.89	3.66 4.38	4.61 4.94	4.14 4.56	4.89 5.01	9.46A 11.54A		17.97A	18.48A	16.55A	16.16A	11
12	3.52 3.91	4.12 4.92	3.68 4.30	4.43 4.81	4.03 4.40	4.88 4.60	11.55A 15.34A		18.50A	18.18A	16.17A	15.62A	12
13	3.51 3.96	4.08 4.95	4.11A	5.85A	3.84 4.16	4.82 4.37	15.42A 20.28A		18.18A	18.88A	15.61A	14.86A	13
14	3.57 4.06	4.21 4.76	5.15 5.63	5.96	3.74 3.84	4.71	20.32A 20.97A		19.02A	18.85A	14.85A	13.69A	14
15	3.60 4.28	4.44 4.84	5.36A	7.45A	4.01 4.76	3.57 3.75	21.01A 20.34A		18.93A	18.38A	13.68A	12.29A	15
16	3.57 4.01	4.37	7.49A	8.88A	4.03 5.08	3.70	20.31A 19.74A		18.36A	17.41A	12.27A	10.18A	16
17	4.53 4.43	3.50 3.96	8.79A	9.47A	3.92 4.17	4.37 5.69	19.74A 20.12A		17.41A	17.08A	10.03 9.54	10.11 9.72	17
18	4.69 4.73	3.79 4.07	9.60A	9.00A	4.46 4.93	5.01 6.75	20.13A 21.63A		17.11A	16.86A	9.06 8.54	9.24 8.76	18
19	4.88 5.05	4.02 4.16	8.89 8.46	8.93 8.91	6.46A	9.11A	21.61A 21.96A		16.87A	16.59A	8.14 7.85	8.47 8.26	19
20	4.91 5.06	4.01	7.93 7.72	8.07 8.38	9.01A	10.19A	21.64A 20.71A		16.59A	16.31A	7.83 7.66	8.40 8.01	20
21	3.99 3.85	4.66 4.96	7.43 7.38	7.67 8.13	9.78A	10.55A	20.68A 19.46A		16.30A	15.66A	7.49A	8.13A	21
22	3.69 3.61	4.34 4.96	7.08 7.05	7.33 7.83	10.10 10.17	10.35 10.49	19.43A 18.41A		15.64A	14.90A	8.05A	9.38A	22
23	3.52 3.57	4.19 5.03	6.69 6.66	7.00 7.48	9.71 9.33	9.75 9.59	18.40A 17.59A		14.88A	13.89A	9.39A	10.37A	23
24	3.48 3.58	4.16 5.07	6.33 6.33	6.68 6.99	9.03 8.98	9.29 9.22	17.59A 17.22A		13.88A	12.72A	10.65A	10.15A	24
25	3.44 3.65	4.13 5.15	5.94 6.04	6.38 6.53	8.73 8.63	8.98 8.74	17.22A 17.12A		12.71A	11.94A	10.14A	9.06A	25
26	3.49 3.85	4.28 5.30	5.66 5.87	6.21 6.32	8.22 8.04	8.51 8.13	17.13A 16.97A		11.86A	12.08A	9.06A	8.01A	26
27	3.56 3.88	4.30 5.01	5.60 5.66	6.27	7.69 7.57	8.19	16.98A 16.21A		11.92A	13.82A	8.10A	7.24A	27
28	3.42 3.88	4.29 4.74	5.93 6.07	5.28 5.47	7.67 7.78	7.29 6.99	16.23A 15.76A		13.85A	16.75A	7.40A	6.20A	28
29	3.24 3.32	3.93	5.70 5.95	5.19 5.26	7.06 7.42	6.81 6.62	15.76A 15.38A				6.45 6.23	6.11 5.50	29
30	3.91 3.44	2.72 2.96	5.51 5.99	5.14	6.78 7.21	6.61	15.37A 15.15A				5.96 6.12	5.66	30
31	3.73 3.96	2.83 3.11			6.37 6.46	6.61 7.01	15.13A 15.28A				5.45 5.57	6.00 6.16	31
MAXIMUM	5.30		9.60A		10.55A		21.96A		19.02A		17.67A		MAXIMUM
MINIMUM	2.72		2.92A		3.57A		6.01A		11.86A		5.45A		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 28 23, LONG. 121 31 58, SW SEC. 10, T7N, R4E
10.7 MILES BELOW SACRAMENTO, 1.9 MILES NORTHWEST OF FREEPORT.
MAXIMUM GAGE HEIGHT LISTED AT PRESENT DATUM.

PERIOD OF RECORD: AUG 1955 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

891850 SACRAMENTO RIVER NEAR FREEPORT
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.61 5.71	6.22 6.11	4.56 3.80	2.92 3.14	6.43 5.05	4.44	3.19 2.80	5.25 3.86	3.23 3.03	4.57 4.34	NR	NR	1
2	5.61 5.51	6.12 5.89	4.69 3.68	2.87	4.55 4.08	6.13 4.82	3.09 2.82	5.10 3.89	3.31 3.07	4.39 4.49	NR	NR	2
3	5.44 5.30	6.05 5.64	3.02 2.72	4.66 3.80	4.30 3.93	5.86 4.74	3.02 2.66	4.66 3.93	3.42 3.20	4.23 4.64	NR	NR	3
4	5.23 5.06	6.03 5.42	3.19 2.99	5.03 3.88	4.20 3.68	5.54 4.63	2.99 2.47	4.21 3.94	3.42 3.14	3.97 4.73	NR	NR	4
5	5.00 4.90	5.95 5.40	3.23 2.66	4.86 3.74	3.97 3.32	5.12 4.36	2.89 2.59	3.92 4.36	3.38 3.28	3.87 4.91	NR	NR	5
6	5.06 4.98	6.15 5.39	3.13 2.52	4.65 3.56	3.58 2.87	4.37 4.21	3.07 2.64	3.76 4.40	3.37 3.51	3.86	NR	NR	6
7	5.06 4.68	5.98 5.05	3.02 2.59	4.43 3.73	3.28 2.57	3.82	2.91 2.52	3.31	5.06 3.81	3.36 3.55	NR	NR	7
8	4.79 4.40	5.64	2.98 2.14	3.99	4.16 3.44	2.96 2.50	4.43 3.15	2.81 2.64	5.02 3.91	3.27 3.62	NR	NR	8
9	4.94 5.52	4.75 4.36	3.43 3.47	2.59 1.90	4.36 3.49	2.93 2.81	4.51 3.15	2.73 2.81	4.98 3.73	3.07 3.40	NR	NR	9
10	4.91 5.23	4.67 4.04	3.39 3.01	2.32 1.70	4.66 3.57	2.98 3.05	4.72 3.51	2.91 3.18	4.73 3.65	2.87 3.25	NR	NR	10
11	4.75 4.92	4.29 3.90	3.47 3.06	2.23 1.96	4.91 3.70	2.97 3.20	4.94 3.73	2.96 3.41	4.69 3.86	2.92 3.41	NR	NR	11
12	4.81 4.95	4.19 4.01	3.85 3.27	2.39 2.31	4.90 3.71	2.84 3.21	5.06 3.79	2.99 3.48	4.88 3.92	3.04 3.35	NR	NR	12
13	4.91 4.93	4.16 4.07	4.15 3.53	2.54 2.61	4.84 3.61	2.70 3.15	5.27 4.12	3.15 3.77	4.72 3.76	2.97	NR	NR	13
14	4.93 4.66	4.04	4.37 3.74	2.68 2.94	4.85 3.38	2.58 2.94	5.32 4.25	3.21 3.78	3.08 2.90	4.52 3.85	NR	NR	14
15	3.97 4.06	5.00 4.78	4.47 3.59	2.64 2.96	4.49 3.50	2.36	5.23 4.08	3.14	3.02 2.86	4.42 3.98	NR	NR	15
16	4.15 4.19	5.17 4.84	4.45 3.50	2.56	3.16 2.57	4.71 3.67	3.61 3.07	5.03 4.06	3.02 2.80	4.22 4.02	NR	NR	16
17	4.34 4.24	5.34 5.02	2.96 2.63	4.51 3.56	3.20 2.37	4.59 3.36	3.51 3.02	4.84 4.18	NR	NR	NR	NR	17
18	4.46 4.02	5.23 4.70	3.15 2.87	4.71 4.01	2.87 2.13	4.12 3.20	3.60 3.21	4.75 4.34	NR	NR	NR	NR	18
19	4.31 3.87	5.17 4.43	3.70 3.40	5.18 4.40	2.74 2.09	3.95 3.32	3.65 3.03	4.54 4.27	NR	NR	NR	NR	19
20	4.13 3.67	4.86 4.21	3.96 3.40	5.05 4.19	2.76 2.02	3.80 3.33	3.43 2.90	4.15 4.28	NR	NR	NR	NR	20
21	4.00 3.56	4.79 4.16	3.90 3.39	4.88 4.35	2.68 1.98	3.57 3.63	3.17 2.56	3.60 4.15	NR	NR	NR	NR	21
22	4.00 3.49	4.76 4.19	4.06 3.46	4.79 4.46	2.87 2.22	3.73 3.80	2.90 2.64	3.30 4.47	NR	NR	NR	NR	22
23	4.05 3.35	4.68	4.21 4.12	4.90	2.62 1.97	3.04	2.96 2.76	3.28 4.50	NR	NR	NR	NR	23
24	4.09 4.33	3.91 3.03	5.16 5.10	4.83 4.14	3.78 2.86	2.42 2.17	2.75 2.77	3.08	NR	NR	NR	NR	24
25	3.93 4.03	3.69 2.88	5.02 4.84	4.59 4.16	4.21 3.01	2.52 2.48	4.58 3.21	2.72 2.92	NR	NR	NR	NR	25
26	3.93 3.82	3.48 2.72	5.25 4.63	4.49 4.04	4.65 3.17	2.71 2.73	4.85 3.51	2.85 3.25	NR	NR	NR	NR	26
27	4.02 3.89	3.33 2.90	5.24 4.55	4.36 4.05	4.97 3.37	2.74 2.99	5.45 4.08	3.28 3.59	NR	NR	NR	NR	27
28	4.27 3.99	3.30 3.11	5.24 4.41	4.17 4.00	5.36 3.90	2.99 3.42	5.51 4.20	3.36 3.55	NR	NR	NR	NR	28
29	4.44 3.88	3.20 3.14	5.37 4.53	4.10 4.16	5.66 3.93	3.09 3.32	5.37 4.08	3.19	NR	NR	NR	NR	29
30	4.63 3.83	3.08 3.02	5.75 4.94	4.25 4.55	5.52 3.89	2.95	3.31 3.02	5.03 4.05	NR	NR	NR	NR	30
31			6.30 5.09	4.50 4.72			3.22 3.06	4.83 4.18	NR	NR			31
MAXIMUM	6.22		6.30		6.43		5.51		NR		NR		MAXIMUM
MINIMUM	2.72		1.70		1.97		2.47		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 23.9 - 12/23/55

ZERO OF GAGE: 1955 TO 1956 4.93 USCGS
1956 0.00 USCGS
1964 -0.43 USCGS
1964 TO DATE 0.00 USCGS

TABLE H-12 (CONTINUED)

DAILY TIDES

H91750 SACRAMENTO RIVER AT SNODGRASS SLOUGH
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.28 5.89	6.85	5.97 6.45	4.51 4.66	6.63 7.66	6.00 5.92	7.45 8.40	7.18	13.56 13.74	13.42	14.62A	15.55A	1
2	7.45 6.68	5.19 5.55	5.85 6.48	4.51 4.59	6.90 7.95	6.30 5.99	6.74 7.37	7.69 8.71	13.23 13.20	13.44 13.54	15.67A	15.33A	2
3	7.31 6.96	5.21 5.66	5.99 6.87	4.75 4.79	6.97 8.06	6.37	7.07 7.52	8.02 8.72	12.95 12.82	13.17 13.22	15.54 15.65	15.29	3
4	7.32 7.00	5.33 5.37	6.29 7.12	5.13	6.18 6.69	7.31 8.26	6.88 7.27	7.75 8.46	12.61 12.60	12.95 13.09	15.31 15.34	15.59 15.68	4
5	6.88 6.78	5.07 5.02	4.89 5.03	6.11 6.86	5.98 6.37	6.95 7.94	6.61 7.09	7.57 8.38	12.54 12.58	12.92 12.93	15.29 15.23	15.59 15.49	5
6	6.58 6.86	4.96	4.58 5.09	5.93 7.04	5.86 6.72	7.31 8.20	6.63 7.15	7.61 8.41	12.48 12.62	12.93 13.09	15.05 14.98	15.40 15.29	6
7	4.94 5.13	6.62 7.32	4.76 5.52	6.14 7.51	5.92 6.58	7.09 8.27	6.78 7.22	7.83 8.28	12.86 13.23	13.47 13.60	14.95 14.94	15.34 15.20	7
8	5.21 5.34	6.69 7.24	4.96 5.34	6.06 6.92	5.86 6.36	6.97 7.68	6.80 7.26	7.87 8.38	13.54 13.88	14.06 14.09	14.97 15.05	15.42 15.27	8
9	5.06 5.32	6.46 7.33	4.55 5.26	5.82 6.84	5.44 6.05	6.59 7.25	7.21 8.29	8.75 9.12	14.01 14.26	14.47	15.05 14.91	15.41 15.03	9
10	5.07 5.45	6.42 7.32	4.58 5.69	6.19 7.02	5.24 5.90	6.46 6.91	8.05 8.66	9.37 9.29	14.63A	15.75A	14.82 14.58	15.09 14.74	10
11	5.04 5.66	6.36 7.23	5.05 6.14	6.72 7.05	5.12 5.90	6.66 6.77	8.95 10.13	10.51 10.63	15.77A	16.40A	14.56 14.27	14.80 14.41	11
12	5.02 5.71	6.20 7.22	4.96 5.82	6.29 6.60	5.05 5.68	6.64 6.19	10.61A	13.25A	16.46A	15.94A	14.24 13.86	14.41	12
13	4.95 5.77	6.10 7.23	5.06 6.51	6.78 7.27	4.87 5.41	6.70 5.95	13.30A	16.94A	16.08 16.58	16.01 16.34	13.98 13.94	13.75 13.26	13
14	5.01 5.87	6.23 6.92	5.93 6.66	7.50 7.21	4.85 4.96	6.61	16.96A	18.06A	16.59 16.89	16.49 16.35	13.33 13.08	12.96 12.32	14
15	5.05 6.11	6.55 6.98	5.99 7.39	7.99	5.51 6.80	4.74 4.89	18.29A	17.28A	16.60 16.77	16.41	12.44 12.16	11.95	15
16	4.96 5.69	6.45 6.60	8.49 9.43	7.92 8.62	5.63 7.17	4.98 5.00	17.26 17.26	17.43 17.83	15.97 15.63	16.10 15.90	11.21 10.46	11.37 10.82	16
17	4.85 5.49	6.52	9.25 9.96	8.64 8.86	5.96 7.87	5.46 5.43	16.94 17.23	17.32 17.73	15.18 15.07	15.44 15.41	10.23 10.06	9.31	17
18	6.74 6.80	5.10 5.50	9.51 10.14	8.88	6.48 8.48	5.99	17.24 17.99	18.03 18.82	14.92 14.88	15.21 15.17	8.88 8.54	9.69 9.35	18
19	6.95 7.18	5.36 5.58	8.72 8.50	9.25 9.83	6.74 7.87	8.09 9.81	18.50 18.81	18.91 19.15	14.76 14.68	15.07 14.90	8.20 8.02	9.22 9.04	19
20	6.99 7.29	5.44 5.43	7.99 8.00	8.70 9.48	8.49 9.10	9.41 10.51	18.36 18.11	18.48 18.35	14.54 14.45	14.85 14.64	8.08 8.04	9.43 8.95	20
21	6.75 7.26	5.32	7.57 7.80	8.43 9.35	9.13 9.48	9.81 10.75	17.55 17.28	17.74 17.40	14.32 14.04	14.59 14.16	7.87 7.84	9.03 8.85	21
22	5.09 5.18	6.46 7.34	7.33 7.64	8.27 9.20	9.40 9.71	10.23 10.74	16.55 16.21	16.75 16.29	13.78 13.44	14.02 13.48	8.21 8.44	9.38 9.28	22
23	4.97 5.21	6.34 7.45	7.09 7.39	8.09 8.96	9.22 9.08	9.84 9.99	15.84 15.50	16.02 15.55	13.16 12.64	13.34 12.68	9.05 9.38	10.06 9.90	23
24	4.94 5.32	6.34 7.55	6.86 7.20	7.91 8.47	8.62 8.73	9.53 9.47	15.24 15.10	15.48 15.17	12.42 11.76	12.72 11.78	9.77 9.54	10.39 9.83	24
25	4.95 5.42	6.34 7.62	6.51 6.88	7.63 7.89	8.32 8.42	9.26 8.98	15.00 14.98	15.29 15.03	11.73A	10.96A	9.61 8.81	10.00	25
26	5.01 5.68	6.51 7.79	6.24 6.74	7.51 7.64	7.97 8.00	9.01 8.50	15.17A	14.84A	11.48A	10.91A	9.18 9.31	8.92 8.00	26
27	5.11 5.69	6.52 7.43	6.23 6.40	7.68 7.13	7.68 7.78	9.01 8.30	14.88A	14.25A	11.03A	12.29A	8.56 8.71	8.36 7.47	27
28	4.91 5.70	6.49 7.10	5.87 6.19	7.49	7.63 7.33	8.85	14.31A	13.84A	12.32A	14.61A	8.13 8.01	7.78 6.62	28
29	4.75 5.06	6.16 6.09	6.83 7.35	5.82 5.90	7.75 8.54	7.30 6.99	14.18A	13.57A			7.42 7.37	6.92 6.15	29
30	4.18 4.60	5.63	6.62 7.48	5.85 5.86	7.57 8.38	7.23 6.78	13.74 13.85	13.61 13.36			7.17 7.36	6.52 6.15	30
31	5.96 6.27	4.34 4.73			7.49 8.30	7.21 6.63	13.60 13.81	13.51 13.36			7.32 7.51	6.43 6.37	31
MAXIMUM	7.79		10.14		10.75		19.15A		16.89A		15.68A		MAXIMUM
MINIMUM	4.18		4.51		4.74		6.61A		10.91A		6.15A		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 21 02, LONG. 121 31 56, SW SEC 22, T6N, R4E
0.2 MILE ABOVE HEAD OF SLOUGH (LEVEED OFF FROM RIVER),
WEST OF STATE HWY 160, 2.5 MILES NE OF COURTLAND. AT
TIMES TIDAL FLUCTUATION IS INFLUENCED BY OPERATION OF
THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: AUG 1939 TO DATE

TABLE H-12 (CONTINUED)

DAILY TIDES

H91750 SACRAMENTO RIVER AT SNODGHASS SLOUGH
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	7.56	6.43	7.04	4.56	8.72	5.72	7.87	4.61	5.04	7.05	5.01	6.23	1
	7.36	6.28	6.11	4.92	7.03	6.14	6.36		4.72	6.77	4.80	6.96	
2	7.40	6.16	7.19	4.52	8.46	5.40	5.12	7.71	5.08	6.77	4.89	5.98	2
	7.07	6.14	6.01	4.87	6.87		4.63	6.37	4.69	6.87	4.89	6.97	
3	7.44	5.98	7.19	4.42	5.92	8.22	5.02	7.23	5.09	6.49	4.73	5.73	3
	6.88		6.18		5.27	6.84	4.43	6.43	4.79	6.99	4.96	6.90	
4	6.01	7.55	5.16	7.58	5.87	7.90	4.94	6.74	5.03	6.16	4.74	6.06	4
	5.72	6.69	4.73	6.29	5.07	6.83	4.25	6.46	4.81	7.14	5.68	7.62	
5	5.81	7.58	5.26	7.46	5.67	7.47	4.82	6.42	5.05	6.06	5.09	6.13	5
	5.64	6.80	4.40	6.19	4.78	6.62	4.39	6.87	5.10	7.33	5.60	7.00	
6	6.07	7.93	5.16	7.22	5.29	6.67	4.98	6.16	5.05	6.07	4.53	5.71	6
	5.80	6.85	4.24	5.99	4.38	6.56	4.48	6.94	5.44	7.53	5.13		
7	6.15	7.80	5.05	6.99	5.00	6.08	4.77	5.60	5.02	5.99	6.70	4.40	7
	5.50	6.51	4.32	6.20	4.16	6.62	4.40	6.97	5.51		5.71	4.98	
8	5.93	7.41	5.02	6.55	4.73	5.68	4.63	5.39	7.49	4.94	6.54	4.27	8
	5.24	6.44	3.92	5.95	4.19		4.58	7.07	6.16	5.60	5.80	4.86	
9	5.98	7.26	4.65	6.02	6.85	4.69	4.53	5.40	7.47	4.78	6.61	4.41	9
	5.21		3.77		5.75	4.63	4.82		6.02	5.42	6.12	5.26	
10	6.48	5.90	5.94	4.34	7.18	4.76	7.29	4.70	7.23	4.54	7.22	5.09	10
	7.00	5.07	5.53	3.57	5.88	5.00	5.80	5.24	5.95	5.21	6.60	5.28	
11	6.56	5.66	6.04	4.22	7.46	4.75	7.50	4.74	7.18	4.58	6.95	4.78	11
	6.82	5.04	5.59	3.90	6.07	5.20	6.08	5.49	6.18	5.37	6.38	4.95	
12	6.69	5.59	6.43	4.38	7.46	4.65	7.61	4.76	7.36	4.72	6.73	4.67	12
	6.83	5.16	5.81	4.30	6.11	5.28	6.16	5.56	6.25	5.22	6.49		
13	6.85	5.45	6.73	4.51	7.41	4.53	7.85	4.90	7.18	4.61	4.90	6.68	13
	6.79	5.23	6.06	4.60	6.06	5.29	6.54	5.89	6.07	4.93	4.96	6.91	
14	6.83	5.23	6.95	4.57	7.46	4.40	7.88	5.00	6.99	4.57	5.06	6.51	14
	6.45	5.15	6.22	4.93	5.84	5.05	6.68	5.87	6.22		4.90	6.86	
15	6.94	5.22	7.03	4.42	7.09	4.16	7.77	4.88	4.92	6.89	4.89	6.31	15
	6.58	5.33	6.01	4.93	5.96	5.36	6.49	5.63	4.60	6.40	4.97	7.07	
16	7.09	5.22	6.97	4.31	7.32	4.36	7.53	4.79	4.89	6.67	4.99	6.25	16
	6.53	5.48	5.89	4.95	6.16	5.35	6.46		4.54	6.46	5.10	7.24	
17	7.25	5.32	7.04	4.35	7.20	4.18	5.50	7.34	4.75	6.37	4.93	6.03	17
	6.85		5.93	5.14	5.84		4.71	6.53	4.49	6.66	5.09	7.27	
18	5.75	7.14	7.21	4.53	4.98	6.69	5.50	7.16	4.79	6.20	4.87	5.99	18
	5.07	6.46	6.34		3.89	5.65	4.81	6.68	4.56	6.71	5.28	7.40	
19	5.71	7.16	5.67	7.62	4.83	6.52	5.46	6.92	4.66	5.87	4.93	6.06	19
	4.94	6.11	4.95	6.55	3.86	5.82	4.69	6.62	4.59	6.86	5.49	7.29	
20	5.47	6.76	5.76	7.34	4.85	6.36	5.25	6.48	4.58	5.59	4.78	6.09	20
	4.68	5.86	4.76	6.23	3.82	5.86	4.56	6.67	4.64	7.01	5.41	7.13	
21	5.40	6.75	5.64	7.11	4.76	6.11	4.95	5.86	4.60	5.61	4.68	6.02	21
	4.65	5.89	4.75	6.45	3.82	6.20	4.26	6.60	5.00	7.18	5.19		
22	5.48	6.72	5.81	6.93	4.94	6.25	4.68	5.51	4.50	5.61	7.02	4.76	22
	4.63	6.05	4.86	6.52	4.12	6.38	4.38	6.95	5.07	7.26	6.29	5.20	
23	5.72	6.73	5.87	6.84	4.65	5.42	4.65	5.41	4.51	5.88	7.00	4.83	23
	4.60	6.07	5.27	7.02	3.89	6.36	4.58	6.99	5.28		6.44	5.18	
24	5.70	6.40	6.18	6.74	4.34	5.20	4.40	5.22	7.30	4.43	7.03	4.94	24
	4.37		5.07	6.77	4.10		4.64	7.08	5.84	5.09	6.80	5.19	
25	5.98	5.50	5.81	6.44	6.79	4.36	4.32	5.39	7.39	4.58	6.77	4.81	25
	6.10	4.29	5.20		5.35	4.44	4.86		6.05	4.97	6.47		
26	6.10	5.28	7.15	5.67	7.23	4.52	7.37	4.46	7.28	4.71	4.84	6.48	26
	5.93	4.24	6.16	5.12	5.47	4.77	5.78	5.27	6.54	5.23	4.77	6.56	
27	6.35	5.15	7.19	5.43	7.56	4.56	8.01	4.96	7.40	4.87	4.73	6.29	27
	6.14	4.51	6.03	5.10	5.74	5.07	6.44	5.59	6.46	4.94	4.78	6.71	
28	6.62	5.02	7.15	5.19	7.96	4.83	8.07	5.06	6.97	4.62	4.70	6.24	28
	6.23	4.76	5.97	5.16	6.36	5.52	6.56	5.48	6.46		4.84	6.87	
29	6.81	4.84	7.44	5.20	8.27	4.92	7.92	4.91	4.82	6.80	4.70	6.21	29
	6.10	4.76	6.30	5.50	6.40	5.42	6.49	5.23	4.69	6.81	4.98	6.97	
30	7.05	4.76	7.97	5.49	8.14	4.77	7.59	4.76	5.05	6.90	4.78	6.28	30
	6.14	4.79	6.91	6.13	6.38	5.24	6.50		5.06	7.15	5.30	7.24	
31			8.59	5.73			5.08	7.34	5.17	6.63			31
			7.04	6.30			4.73	6.60	5.05	7.10			
MAXIMUM	7.93		8.59		8.72		8.07		7.53		7.62		MAXIMUM
MINIMUM	4.24		3.57		3.82		4.25		4.43		4.27		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 20.57 - 12/25/64

ZERO OF GAGE: 1939 -3.02 USCGS
1964 -3.40 USCGS
1964 TO DATE -3.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

891650 SACRAMENTO RIVER AT WALNUT GROVE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	1.13 2.06	3.53	2.67 3.20	0.55 0.69	2.59 4.00	1.55 1.29	3.33 4.59	2.86 2.06	7.01 7.50	6.63	7.90 8.46	7.82 7.71	1
2	4.15 3.36	1.07 1.68	2.55 3.26	0.60 0.63	2.98 4.35	1.97 1.39	3.60 4.90	3.05 2.41	6.30 6.48	7.00 7.45	8.28 8.58	7.91 7.74	2
3	4.02 3.65	1.14 1.74	2.72 3.68	0.92 0.81	3.10 4.48	2.12 1.63	3.98 4.95	3.19	6.15 6.31	6.98 7.44	8.40 8.72	7.82 7.78	3
4	4.00 3.72	1.31 1.46	3.02 3.90	1.33 0.90	3.57 4.78	2.55	2.21 3.01	3.74 4.79	6.00 6.16	7.01 7.44	8.55 8.72	7.87 7.81	4
5	3.59 3.52	1.07 1.04	2.84 3.67	1.27	1.49 2.26	3.20 4.47	2.03 2.81	3.62 4.63	5.97 6.08	6.99 7.06	8.60 8.56	7.77	5
6	3.31 3.61	1.04 0.99	0.57 1.35	2.65 3.83	1.31 2.61	3.63 4.70	2.00 2.79	3.61 4.58	5.89 6.14	7.11 7.16	7.65 7.65	8.58 8.45	6
7	3.35 4.10	1.29	0.68 1.80	2.82 4.28	1.46 2.57	3.46 4.84	2.12 2.80	3.82 4.39	6.23 6.50	7.53 7.18	7.58 7.57	8.56 8.24	7
8	1.29 1.56	3.43 4.03	0.86 1.62	2.72 3.70	1.46 2.36	3.37 4.25	2.09 2.73	3.80 4.27	6.58 6.83	7.69 7.29	7.60 7.62	8.64 8.22	8
9	1.12 1.57	3.20 4.13	0.47 1.62	2.52 3.63	1.00 2.04	2.97 3.78	2.43 3.65	4.60 4.87	6.90 7.07	7.96 7.59	7.70 7.57	8.64 7.96	9
10	1.12 1.72	3.13 4.10	0.50 2.02	2.89 3.76	0.78 1.89	2.87 3.41	3.05 3.57	4.98 4.47	7.47 7.87	8.61 8.36	7.54 7.31	8.33 7.82	10
11	1.04 1.89	3.05 3.99	0.91 2.44	3.41 3.72	0.70 1.89	3.16 3.24	3.44 4.34	5.58 5.12	8.31 8.43	9.35	7.45 7.08	8.17 7.50	11
12	0.96 2.04	2.86 3.99	0.73 1.94	2.86 3.08	0.68 1.56	3.16 2.52	4.61 5.68	6.62	8.80 9.36	8.65 8.31	7.24 6.77	7.83	12
13	0.84 2.12	2.73 3.98	0.61 2.31	3.09 3.43	0.49 1.27	3.27 2.27	6.43A 8.96A	8.96A	8.82 9.35	8.54 8.50	7.30 7.58	6.97 6.34	13
14	0.90 2.22	2.87 3.66	1.31 2.31	3.80 3.27	0.59 0.67	3.20 1.77	8.92 10.14	8.89 8.71	9.09 9.72	8.79 8.54	6.82 6.90	6.32 5.70	14
15	0.97 2.45	3.23 3.67	1.32 2.80	4.35 4.25	0.55 0.60	3.44	9.53 10.66	9.40 8.83	9.15 9.58	8.64 8.31	6.43 6.54	5.67 5.06	15
16	0.81 1.88	3.10 3.27	2.93 3.46	5.08	1.98 3.83	0.92 0.64	9.66 10.69	9.46 9.01	8.92 9.03	8.14 7.76	5.95 5.93	4.76 4.11	16
17	0.69 1.56	3.18	4.62 5.59	3.46 3.56	2.33 4.55	1.43 1.00	9.72 10.44	9.38 9.12	8.49 8.61	7.70	5.50 5.48	4.07 3.71	17
18	3.38 3.43	0.91 1.45	4.83 5.78	3.65 3.46	2.78 5.09	1.79 2.01	10.20 11.26	10.09	7.52 7.53	8.32 8.38	5.23 4.98	3.52 3.28	18
19	3.58 3.82	1.23 1.51	4.69 5.72	3.53 2.97	3.86 5.66	3.17	10.11 10.56	10.91 11.38	7.40 7.39	8.28 8.06	4.97 4.78	3.11	19
20	3.61 3.96	1.35 1.34	4.34 5.51	3.25	3.06 3.86	4.60 6.05	10.06 10.07	10.61 10.78	7.25 7.23	8.14 7.83	3.32 3.30	5.36 4.80	20
21	3.38 3.96	1.28 0.96	2.66 3.20	4.18 5.46	3.54 4.13	4.92 6.17	9.54 9.43	10.20 9.96	7.13 7.03	8.03 7.50	3.19 2.96	4.95 4.60	21
22	3.11 4.09	1.23	2.48 3.15	4.13 5.41	3.78 4.40	5.44 6.18	8.87A 9.46A	9.46A	6.87 6.61	7.69 6.90	3.40 3.24	5.05 4.54	22
23	0.84 1.32	3.01 4.22	2.36 3.05	4.07 5.24	3.73 3.95	5.13 5.54	8.91A 8.41A	8.41A	6.47 6.09	7.20 6.43	3.86 3.80	5.34 4.82	23
24	0.82 1.49	3.01 4.38	2.20 2.88	3.96 4.74	3.32 3.64	4.97 4.92	8.41A 8.04A	8.04A	6.17 5.67	7.15 5.92	4.39 3.92	5.47 4.77	24
25	0.85 1.68	3.03 4.43	1.90 2.56	3.75 4.09	3.00 3.34	4.71 4.43	7.92 7.63	8.29 7.71	5.64 4.94	6.37	4.43 3.53	5.27 4.48	25
26	0.93 2.00	3.22 4.59	1.64 2.44	3.66 3.81	2.79 3.04	4.60 3.99	7.58 7.44	8.19 7.60	5.50 6.19	5.34 4.92	4.15 3.01	4.81	26
27	1.05 2.02	3.25 4.19	1.68 1.89	3.93 3.12	2.75 3.03	4.83 3.95	7.44 7.01	7.93	5.66 6.50	5.41 5.52	4.10 4.39	3.81 2.64	27
28	0.84 2.00	3.23 3.88	1.21 1.66	3.75 2.78	2.94 2.61	4.91	7.19 7.61	7.06 6.71	6.63 7.54	6.58 7.07	3.87 3.86	3.32 1.93	28
29	0.67 1.29	2.93 2.84	1.21 1.30	3.58	3.41 4.57	2.76 2.28	7.16 7.84	7.04	6.62		3.31 3.39	2.55 1.63	29
30	0.07 0.77	2.38 2.68	2.54 3.80	1.34 1.23	3.34 4.47	2.80 2.08	7.20 7.61	6.92 6.41			3.25 3.47	2.22 1.65	30
31	0.34 0.81	3.03			3.32 4.46	2.84 1.95	7.10 7.56	6.78 6.36			3.48 3.66	2.08 1.91	31
MAXIMUM	4.59		5.78		6.18		11.38A		9.72		8.72		MAXIMUM
MINIMUM	0.07		0.47		0.49		2.00A		4.92		1.63		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 14 22, LONG. 121 30 57, SW SEC 35, T5N, R4E
AT HEAD OF GEORGIANA SLOUGH IMMEDIATELY SOUTHWEST OF
WALNUT GROVE. AT TIMES TIDAL FLUCTUATION IS INFLUENCED
BY OPERATION OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: FEB 1929 TO DATE

TABLE H-12 (CONTINUED)

DAILY TIDES

891650 SACRAMENTO RIVER AT WALNUT GROVE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	3.75 3.47	1.99 1.74	3.87 2.89	0.66 1.15	5.48 3.61	1.53 2.31	4.80 3.25	0.86 1.61	1.31 0.90	3.87 3.56	1.11 1.00	2.92 3.76	1
2	3.53 3.14	1.64 1.63	4.01 2.78	0.60 1.17	5.25 3.52	1.27	4.62 3.27	0.89	1.35 0.83	3.55 3.65	1.02 1.17	2.71 3.76	2
3	3.65 2.99	1.48 1.60	4.04 2.97	0.51 1.52	2.13 1.15	5.00 3.52	1.48 0.68	4.15 3.31	1.25 0.93	3.21 3.73	0.85 1.35	2.46 3.71	3
4	3.88 2.78	0.87	4.45 3.13	0.86	2.05 1.00	4.68 3.53	1.36 0.51	3.66 3.36	1.17 1.03	2.86 3.94	0.89 2.22	2.83 4.41	4
5	1.39 1.06	3.97 2.99	1.71 0.53	4.37 2.99	1.92 0.76	4.27 3.40	1.22 0.73	3.31 3.76	1.22 1.43	2.78 4.12	1.23 2.06	2.87 3.80	5
6	1.79 1.26	4.40 3.04	1.61 0.36	4.11 2.78	1.52 0.42	3.48 3.39	1.34 0.84	2.99 3.84	1.18 1.86	2.78 4.34	0.63 1.58	2.47	6
7	1.95 0.98	4.27 2.72	1.51 0.48	3.89 3.02	1.25 0.28	2.85 3.46	1.11 0.81	2.38 3.87	1.14 1.99	2.74 4.30	3.52 2.46	0.47 1.38	7
8	1.78 0.77	3.90 2.70	1.45 0.09	3.43 2.80	0.98 0.41	2.47	0.96 1.06	2.15 3.97	1.06 2.10	2.92	3.38 2.56	0.34 1.20	8
9	1.90 0.74	3.72 2.81	1.10 0.01	2.93	3.74 2.54	0.92 0.98	0.82 1.37	2.18	4.27 2.81	0.91 1.91	3.39 2.90	0.46 1.58	9
10	1.84 0.71	3.48	2.83 2.42	0.76 -0.15	4.05 2.69	0.98 1.41	4.20 2.63	1.00 1.82	4.07 2.75	0.67 1.67	4.02 3.36	1.19 1.54	10
11	3.05 3.38	1.69 0.77	2.95 2.48	0.60 0.23	4.36 2.90	0.96 1.69	4.42 2.93	1.02 2.08	4.03 2.97	0.69 1.77	3.72 3.15	0.89 1.17	11
12	3.24 3.39	1.52 0.92	3.35 2.70	0.73 0.69	4.35 2.95	0.86 1.80	4.55 3.03	1.05 2.17	4.17 3.03	0.83 1.58	3.49 3.29	0.83 1.10	12
13	3.44 3.35	1.35 1.00	3.65 2.94	0.83 1.00	4.32 2.92	0.75 1.87	4.76 3.34	1.07 2.45	3.99 2.85	0.73 1.27	3.41 3.64	1.07	13
14	3.39 2.96	1.05 0.96	3.85 3.07	0.84 1.32	4.38 2.71	0.63 1.61	4.73 3.49	1.19 2.39	3.82 3.01	0.69 1.25	1.16 1.02	3.21 3.59	14
15	3.51 3.06	0.99 1.14	3.91 2.84	0.63 1.31	4.00 2.83	0.36 1.95	4.61 3.28	1.05 2.10	3.73 3.20	0.80	0.96 1.10	2.99 3.80	15
16	3.65 2.96	0.91 1.28	3.85 2.72	0.47 1.36	4.23 3.00	0.57 1.92	4.36 3.25	0.95 1.92	1.20 0.75	3.50 3.28	1.01 1.27	2.90 3.99	16
17	3.78 3.38	1.02 1.66	3.92 2.74	0.49 1.59	4.14 2.71	0.36	4.16 3.31	0.87	1.02 0.73	3.17 3.47	0.93 1.31	2.66 4.02	17
18	3.70 2.93	0.75	4.06 3.12	0.64 2.11	1.50 0.07	3.60 2.52	1.85 0.91	3.95 3.38	1.04 0.83	2.98 3.54	0.86 1.56	2.61 4.14	18
19	1.71 0.62	3.77 2.55	4.44 3.19	0.98	1.37 0.07	3.44 2.71	1.74 0.84	3.65 3.39	0.90 0.89	2.64 3.68	0.88 1.80	2.67 4.05	19
20	1.46 0.34	3.33 2.28	2.07 0.67	4.07 2.89	1.38 0.04	3.26 2.76	1.51 0.72	3.24 3.45	0.75 1.00	2.32 3.84	0.71 1.68	2.76 3.88	20
21	1.44 0.35	3.35 2.35	1.94 0.65	3.84 3.10	1.27 0.08	3.00 3.11	1.17 0.47	2.61 3.43	0.73 1.45	2.32 3.99	0.62 1.42	2.69	21
22	1.62 0.36	3.33 2.58	2.11 0.92	3.62 3.19	1.46 0.44	3.12 3.28	0.90 0.65	2.26 3.74	0.59 1.55	2.36 4.12	3.76 2.95	0.73 1.37	22
23	1.97 0.42	3.38 2.67	2.19 1.18	3.43 3.53	1.07 0.25	2.25 3.28	0.81 0.94	2.11 3.83	0.64 1.79	2.67	3.72 3.11	0.79 1.27	23
24	2.06 0.27	3.07 2.65	2.30 0.71	3.14 3.27	0.69 0.51	2.05 3.70	0.52 1.05	1.93 3.92	4.16 2.64	0.52 1.50	3.71 3.49	0.91 1.25	24
25	1.85 0.26	2.76	1.75 0.95	2.78 3.69	0.62 0.94	2.22	0.39 1.33	2.15	4.22 2.81	0.66 1.30	3.45 3.16	0.80 0.85	25
26	2.83 2.63	1.60 0.29	1.56 0.90	2.43	4.15 2.29	0.80 1.31	4.23 2.57	0.54 1.79	4.09 3.27	0.79 1.51	3.16 3.25	0.76	26
27	3.11 2.90	1.45 0.61	3.81 2.28	1.19 0.88	4.48 2.59	0.83 1.66	4.86 3.22	1.07 2.04	4.20 3.23	0.94 1.16	0.70 0.83	2.97 3.43	27
28	3.37 2.97	1.22 0.90	3.75 2.30	0.87 1.07	4.88 3.23	1.12 2.10	4.94 3.36	1.17 1.88	3.78 3.22	0.69	0.69 0.98	2.91 3.62	28
29	3.58 2.87	0.95 0.91	4.10 2.77	0.93 1.55	5.17 3.27	1.18 1.98	4.78 3.28	1.04 1.59	1.00 0.77	3.57 3.56	0.76 1.21	2.92 3.74	29
30	3.86 2.95	0.86 1.03	4.71 3.51	1.32 2.33	5.06 3.26	1.04 1.77	4.45 3.30	0.92	1.23 1.23	3.66 3.89	0.86 1.62	3.01 4.01	30
31			5.37 3.62	1.55 2.50			1.41 0.85	4.18 3.38	1.28 1.21	3.32 3.89			31
MAXIMUM	4.40		5.37		5.48		4.94		4.34		4.41		MAXIMUM
MINIMUM	0.26		-0.15		0.04		0.39		0.52		0.34		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 12.24 - 12/25/64

ZERO OF GAGE: 1929 TO 1931 0.00 USED
1931 TO 1940 0.33 USED
1940 0.00 USCGS
1964 -0.69 USCGS
1964 TO DATE 0.00 USCGS

TABLE 4-12 (CONTINUED)

DAILY TIDES

891560 YOLO BYPASS NEAR LISRON
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.98 4.25	6.34	5.54 6.01	2.47 2.57	5.48 6.66	3.26 2.86	5.46 6.80	4.01 2.69	13.10A	12.79A	13.44A	14.24A	1
2	6.94 6.18	2.82 3.71	5.44 6.05	2.49 2.52	5.82 7.00	3.84 2.86	5.86 7.31	4.26	12.79A	12.52A	14.26A	15.35A	2
3	6.80 6.50	2.93 3.82	5.63 6.46	2.96 2.81	5.92 7.23	4.08	3.19 4.44	6.29 7.37	12.52A	12.31A	15.36A	15.71A	3
4	6.84 6.54	3.20 3.34	5.97 6.76	3.49	3.42 4.53	6.39 7.41	2.94 4.18	6.05 7.12	12.31A	12.11A	15.71A	15.59A	4
5	6.41 6.26	2.82 2.83	2.84 3.29	5.76 6.44	2.91 4.20	5.98 7.14	2.88 4.07	6.05 7.06	12.11A	12.00A	15.59A	15.40A	5
6	6.11 6.33	2.75	2.41 3.48	5.57 6.59	3.10 4.88	6.55 7.52	2.68 3.83	5.95 6.87	11.97A	12.03A	15.40A	15.13A	6
7	2.78 3.19	6.17 6.83	2.50 4.21	5.75 7.07	3.06 4.70	6.30 7.56	2.68 3.81	6.09 6.65	12.04A	12.91A	15.12A	14.89A	7
8	3.11 3.56	6.27 6.78	2.66 3.74	5.64 6.46	3.06 4.29	6.17 6.92	2.53 3.45	5.97 6.48	12.93A	15.62A	14.89A	14.75A	8
9	2.95 3.58	6.07 6.87	2.29 3.86	5.44 6.39	2.46 3.98	5.71 6.49	3.00 5.08	7.10 7.23	13.83A	14.20A	14.75A	14.62A	9
10	2.98 3.87	6.05 6.89	2.33 4.36	5.74 6.61	2.31 3.81	5.62 6.12	4.74 6.74	7.58	14.17A	15.49A	14.65A	14.40A	10
11	2.87 4.03	5.93 6.74	2.87 4.73	6.26 6.58	2.21 3.94	5.93 6.04	8.03A	9.19A	15.50A	16.49A	14.40A	13.83A	11
12	2.74 4.31	5.77 6.73	2.53 4.16	5.78 5.94	2.30 3.46	5.92 5.29	9.20A	10.42A	16.51A	16.88A	13.83A	13.09A	12
13	2.68 4.38	5.57 6.68	2.30 5.02	6.03 6.49	2.15 3.17	5.96 5.15	10.44A	12.34A	16.91A	16.73A	13.08A	12.63A	13
14	2.73 4.51	5.71 6.41	3.13 4.38	6.65 6.43	2.29 2.43	5.91	12.39A	16.03A	16.73A	16.47A	12.62A	12.19A	14
15	2.82 4.82	6.04 6.44	3.74 4.87	7.16	4.64 6.09	2.34 2.35	16.05A	16.64A	16.47A	16.24A	12.18A	11.87A	15
16	2.58 4.02	5.89	7.08 8.20	5.81 7.54	4.84 6.40	2.91 2.43	16.53A	16.89A	16.24A	15.97A	11.86A	11.64A	16
17	6.05 5.90	2.40 3.51	8.34 9.06	7.83 8.10	5.23 7.18	3.58 2.99	16.89A	17.68A	15.97A	15.70A	11.64A	11.39A	17
18	6.14 6.16	2.58 3.25	8.72 9.42	8.30	5.65 7.48	3.87	17.69A	18.67A	15.69A	15.29A	11.38A	11.12A	18
19	6.31 6.58	3.01 3.33	8.75 9.03	9.25 9.82	3.37 5.00	6.32 8.46	18.68A	19.62A	15.29A	14.79A	11.12A	10.81A	19
20	6.39 6.70	3.08 3.12	9.12 9.16	9.44 9.75	6.11 7.05	7.37 8.86	19.71A	19.46A	14.78A	14.23A	10.82A	10.55A	20
21	6.22 6.68	3.05	8.83 8.62	9.05 9.32	7.09 7.56	7.92 9.11	19.45A	19.05A	14.23A	13.68A	10.54A	10.20A	21
22	2.70 3.12	5.99 6.82	7.70 7.40	8.11 8.67	7.58 7.99	8.54 9.15	19.05A	18.27A	13.67A	13.08A	10.41A	10.52A	22
23	2.57 3.25	5.92 6.95	6.29 6.26	7.30 8.23	7.52 7.52	8.24 8.54	18.26A	17.31A	13.07A	12.60A	10.51A	10.72A	23
24	2.49 3.25	5.87 6.88	5.03 5.28	6.81 7.66	6.80 6.70	7.80 7.66	17.30A	16.50A	12.62A	12.40A	10.72A	11.13A	24
25	2.48 3.73	5.89 7.16	3.92 4.35	6.51 6.86	5.93 5.98	7.33 6.96	16.49A	15.94A	12.43A	12.30A	11.14A	11.35A	25
26	2.74 4.11	6.13 7.33	3.01 3.97	6.38 6.48	5.21 5.17	7.10 6.36	15.94A	15.55A	12.24A	12.48A	11.35A	11.31A	26
27	2.81 4.13	6.09 6.93	2.86 3.83	6.57 6.12	4.68 4.89	7.43 6.30	15.54A	15.11A	12.48A	12.87A	11.31A	11.19A	27
28	2.61 4.19	6.16 6.65	2.86 3.44	6.58 5.74	4.71 4.25	7.24	15.10A	14.49A	12.88A	13.46A	11.25A	10.98A	28
29	2.42 3.07	5.61 5.53	2.83 2.92	6.36	5.63 6.95	4.21 3.41	14.49A	13.85A			10.98A	10.51A	29
30	1.69 2.66	4.96	5.46 6.50	3.00 2.76	5.58 6.96	4.04 2.91	13.85A	13.38A			10.50A	9.82A	30
31	5.40 5.79	2.13 2.76			5.52 6.40	3.87 2.39	13.38A	13.11A			9.98 9.80	9.63	31
MAXIMUM	7.33		9.82		9.15		19.71A		16.91A		15.71A		MAXIMUM
MINIMUM	1.69		2.29		2.15		2.53A		11.97A		9.63A		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 28 30, LONG 121 35 14, SE SEC 1, T7N, R3E
IN WEST CUT, 6.9 MILES SOUTH OF INTERSTATE 80, 5.2 MILES
NORTHWEST OF CLARKSBURG.

PERIOD OF RECORD: FEB 1959 TO DATE

TABLE 8-12 (CONTINUED)
 DAILY TIDES
 H91560 YOLO HYPASS NEAR LISBON
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	9.27	9.46	6.78	2.38	8.13	3.05	7.33	2.15	3.17	6.66	2.89	5.81	1
	8.77	8.94	5.97	3.13	6.58	4.28	5.96		2.50	6.37	2.58	6.57	
2	8.13	8.50	6.97	2.30	7.94	2.68	3.42	7.14	3.30	6.31	2.87	5.65	2
	7.67	8.04	5.91	3.25	6.41		2.20	5.90	2.34	6.35	3.09	6.60	
3	7.31	8.05	7.02	2.19	4.04	7.66	3.20	6.63	3.12	5.97	2.75	5.39	3
	6.79	7.33	6.09		2.45	6.36	1.83	5.83	2.47	6.43	3.37	6.53	
4	6.47	7.79	3.71	7.46	4.01	7.41	3.00	6.21	2.99	5.71	2.87	5.76	4
	6.06	7.04	2.75	6.11	2.55	6.34	1.75	5.89	2.80	6.63	4.60	7.30	
5	6.00	7.79	3.71	7.27	3.79	6.91	2.84	5.89	3.16	5.65	3.22	5.86	5
	5.61	6.98	2.15	6.09	2.15	6.10	2.13	6.29	3.47	6.87	4.43	6.66	
6	5.88	7.94	3.88	7.16	3.34	6.18	3.10	5.66	3.15	5.66	2.44	5.40	6
	5.51	6.93	2.19	5.91	1.88	6.06	2.40	6.37	4.08	7.08	3.73		
7	5.82	7.78	3.63	6.80	3.05	5.68	2.70	5.10	3.00	5.55	6.33	2.19	7
	5.07	6.49	2.40	6.07	1.81		2.41		4.24		5.27	3.40	
8	5.43	7.36	3.59	6.36	6.13	2.75	6.37	2.45	7.05	2.91	6.03	1.75	8
	4.53	6.38	1.79		5.30	2.10	4.92	2.78	5.79	4.38	5.24	3.04	
9	5.32	7.16	5.83	3.17	6.41	2.75	6.42	2.22	7.05	2.62	6.13	2.08	9
	4.27	6.37	5.91	1.82	5.48	3.02	4.94	3.19	5.62	4.08	5.74	3.75	
10	5.13	6.88	5.85	2.76	6.72	2.82	6.67	2.39	6.82	2.26	6.85	3.11	10
	4.12		5.35	1.60	5.64	3.63	5.35	3.77	5.58	3.78	6.33	3.67	
11	6.59	4.87	5.91	2.50	7.01	2.85	6.90	2.45	6.76	2.34	6.62	2.66	11
	6.85	3.94	5.46	2.13	5.82	3.93	5.70	4.16	5.75	3.95	6.12	3.22	
12	6.82	4.55	6.31	2.60	7.01	2.64	7.10	2.41	6.98	2.43	6.46	2.68	12
	6.46	4.01	5.69	2.65	5.82	4.03	5.75	4.18	5.61	3.55	6.28		
13	6.88	4.23	6.54	2.73	7.03	2.58	7.25	2.77	6.74	2.16	3.19	6.43	13
	6.80	3.71	5.93	2.96	5.81	4.13	6.22	4.79	5.62	3.16	3.07	6.64	
14	6.82	3.76	6.72	2.67	7.04	2.40	7.62	2.99	6.59	2.19	3.20	6.24	14
	6.40	3.81	6.10	3.49	5.56	3.83	6.38	4.72	5.78		2.78	6.52	
15	7.03	3.81	6.77	2.34	6.69	2.05	7.51	2.76	3.15	6.53	2.75	6.02	15
	6.54	3.90	5.79	3.36	5.66	4.31	6.18	4.37	2.43	6.07	2.93	6.67	
16	7.10	3.58	6.63	2.05	6.98	2.54	7.23	2.61	3.18	6.35	2.87	5.95	16
	6.44	3.84	5.61	3.37	5.95		6.14		2.45	6.13	3.18	6.85	
17	7.13	3.27	6.70	2.11	4.25	6.92	4.10	7.00	2.95	6.01	2.74	5.67	17
	6.54		5.70	3.69	2.01	5.57	2.53	6.20	2.41	6.32	3.23	6.87	
18	3.85	6.84	6.87	2.26	3.66	6.39	3.97	6.78	3.08	5.88	2.65	5.61	18
	2.61	6.28	6.04		1.63	5.39	2.61	6.27	2.55	6.31	3.58	6.97	
19	3.83	6.94	4.43	7.28	3.53	6.25	3.91	6.53	2.82	5.50	2.64	5.73	19
	2.23	5.79	2.96	6.26	1.72	5.52	2.66	6.30	2.74	6.42	3.96	6.90	
20	3.37	6.28	4.36	6.98	3.46	6.05	3.68	6.09	2.64	5.21	2.56	5.80	20
	1.68	5.46	2.29	5.85	1.60	5.54	2.46	6.30	2.96	6.59	3.77		
21	3.46	6.36	4.03	6.66	3.35	5.85	3.11	5.47	2.67	5.26	6.78	2.38	21
	1.99	5.61	2.27	6.03	1.69	5.90	2.11	6.19	3.65	6.77	5.72	3.44	
22	3.75	6.44	4.38	6.54	3.79	5.97	2.77	5.08	2.49	5.31	6.67	2.65	22
	2.19	5.80	2.25	5.97	2.20	6.08	2.44	6.45	3.83		5.99	3.32	
23	4.32	6.36	4.14	6.21	3.19	5.20	2.70	4.95	6.93	2.40	6.60	2.50	23
	2.09	5.73	2.52	6.18	1.99	6.06	2.84	6.56	5.55	4.00	6.05	3.15	
24	4.29	5.96	3.81	5.73	2.67	4.97	2.21	4.75	6.92	2.09	6.58	2.59	24
	1.90	5.69	2.02		2.45		2.98		5.49	3.66	6.35	3.02	
25	4.12	5.80	5.99	3.59	6.43	2.40	6.63	1.93	7.01	2.28	6.28	2.23	25
	2.01		5.60	2.54	4.91	2.63	4.97	3.30	5.65	3.26	5.87		
26	5.78	3.79	6.39	3.25	6.66	2.21	6.93	2.02	6.90	2.44	2.32	5.92	26
	5.62	2.10	5.36	2.42	5.11	3.18	5.33	3.93	6.16	3.51	2.29	6.01	
27	6.10	3.59	6.43	2.67	7.00	2.20	7.60	2.67	7.07	2.54	2.28	5.82	27
	5.93	2.59	5.18	2.30	5.47	3.69	6.03	4.17	6.04	2.96	2.44	6.21	
28	6.46	3.29	6.41	2.23	7.52	2.64	7.72	2.82	6.61	2.21	2.31	5.81	28
	6.09	2.98	5.25	2.62	6.06	4.21	6.19	3.89	6.06		2.77	6.40	
29	6.59	2.72	6.74	2.31	7.82	2.71	7.58	2.55	2.80	6.44	2.43	5.82	29
	5.82	2.76	5.76	3.31	6.09	4.03	6.13	3.59	2.31	6.37	3.11	6.53	
30	6.69	2.38	7.35	2.93	7.66	2.50	7.29	2.45	3.06	6.51	2.69	5.94	30
	5.88	2.81	6.35	4.30	6.00	3.69	6.15		3.02	6.74	3.74	6.85	
31			8.08	3.01				3.32	6.99	3.30	6.32		31
			6.48	4.40				2.35	6.21	3.03	6.70		
MAXIMUM	9.46		8.08		8.13		7.72		7.08		7.30		MAXIMUM
MINIMUM	1.68		1.60		1.60		1.75		2.09		1.75		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD:

ZERO OF GAGE: 1959 TO 1962 0.43 USED
 1962 0.00 USED
 1962 -3.04 USCGS
 1964 -3.39 USCGS
 1964 TO DATE -3.00 USCGS

TABLE H-12 (CONTINUED)

DAILY TIDES

B91210 SACRAMENTO RIVER AT RIO VISTA
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.72 4.21	6.28 7.02	2.38 2.46	6.14	5.28 6.78	3.31 2.42	5.30 6.96	4.09 2.11	6.06 7.24	4.52 2.70	6.51 7.30	4.91 3.29	1
2	2.64 3.75	6.21	5.41 6.21	2.49 2.35	5.65 7.13	3.87 2.50	5.66 7.31	4.27 2.56	6.17 7.33	4.37 2.83	6.53 7.31	4.45 3.33	2
3	6.93 6.48	2.72 3.76	5.60 6.61	2.99 2.50	5.78 7.27	4.06 2.88	6.06 7.36	4.36 2.33	6.47 7.63	4.43 3.16	6.71 7.68	4.33 3.75	3
4	6.85 6.60	3.01 3.32	5.88 6.83	3.47 2.53	6.27 7.60	4.55 2.65	5.84 7.25	4.25 2.21	6.89 7.77	4.46 3.24	7.16 7.62	4.34 3.80	4
5	6.51 6.44	2.81 2.82	5.67 6.60	3.43 2.11	5.89 7.28	4.34 2.42	5.83 7.09	4.05 2.12	6.90 7.11	4.03 3.06	7.30 7.39	4.14 3.84	5
6	6.22 6.57	2.90 2.71	5.50 6.75	3.60 2.20	6.43 7.49	4.71 2.69	5.79 6.99	3.90 2.24	7.11 7.26	4.16	7.60 7.43	4.22 4.04	6
7	6.28 7.06	3.28 3.02	5.68 7.17	4.05 2.33	6.21 7.61	4.74 2.68	6.00 6.72	3.84	3.92 4.08	7.63 6.68	7.69 6.96	3.89 4.23	7
8	6.31 6.98	3.67 2.82	5.53 6.58	3.94	6.11 7.06	4.53	2.15 3.55	5.95 6.46	3.71 3.77	7.37 6.18	7.82 6.69	3.71	8
9	6.09 7.12	3.76 2.79	1.94 4.05	5.35 6.53	2.13 4.22	5.72 6.57	2.58 4.59	6.88 6.87	3.99 3.68	7.48 6.10	4.58 3.64	7.86 6.19	9
10	6.02 7.06	4.01	2.03 4.47	5.74 6.60	2.00 4.12	5.64 6.17	2.99 3.66	6.86 5.72	5.04 4.09	8.07 6.33	4.56 3.52	7.48 6.32	10
11	2.73 4.25	5.88 6.89	2.47 4.85	6.24 6.53	2.00 4.11	5.96 6.01	2.79 3.53	6.96 5.54	5.52 4.52	8.45 6.63	5.04 3.26	7.57 6.00	11
12	2.60 4.52	5.70 6.86	2.21 4.26	5.66 5.86	2.08 3.64	5.99 5.29	3.49 3.28	7.38 5.30	5.71 4.14	8.20	4.98 3.02	7.13 6.16	12
13	2.49 4.64	5.56 6.86	2.01 4.70	5.91 6.18	1.96 3.22	6.13 5.01	3.88 3.11	7.52 5.43	6.96 8.17	5.82 3.97	5.05 2.60	7.10	13
14	2.60 4.80	5.68 6.52	2.72 4.25	6.59 6.01	2.30 2.26	6.05 4.51	4.38 3.03	7.64	6.89 8.50	5.48 4.10	5.84 6.57	4.07 2.24	14
15	2.75 5.05	6.07 6.50	2.65 3.73	6.62 6.33	2.43 2.08	6.32 4.71	6.16 8.52	5.15 3.88	6.97 8.15	5.07 3.78	6.06 6.81	3.78 2.35	15
16	2.47 4.24	5.95 6.09	3.16 3.43	7.09 6.16	2.96 1.94	6.73	7.21 9.56	6.22 4.68	7.03 7.97	4.73 3.53	6.22 6.91	3.44 2.64	16
17	2.31 3.66	6.05 6.20	3.41 3.24	7.50	5.12 7.45	3.50 2.23	7.55 9.06	5.78 4.45	7.11 7.74	4.43 3.59	6.70 6.92	3.40 2.92	17
18	2.54 3.33	6.30	6.32 7.70	3.60 2.98	5.51 7.65	3.75 2.25	8.12 9.75	6.82 5.26	7.11 7.49	4.18 3.65	6.79 6.65	2.97 2.87	18
19	6.42 6.68	2.93 3.25	6.21 7.87	3.79 2.60	5.94 7.93	4.01 2.30	7.99 8.87	5.98 4.71	7.29 7.04	3.99 3.69	6.84 6.73	2.85 3.48	19
20	6.46 6.85	3.08 2.97	6.15 7.80	3.82 2.33	5.96 7.91	3.99 2.23	7.53 8.31	5.52 4.56	7.30 6.73	3.92	7.43 6.73	3.29 3.47	20
21	6.25 6.87	3.08 2.43	6.09 7.81	3.96 2.20	6.07 7.87	4.04 2.48	7.67 7.80	5.24	3.88 3.89	7.35 6.49	7.07 6.36	2.91 3.69	21
22	5.96 7.07	3.14 2.26	6.13 7.85	4.10	6.70 7.85	4.31	4.43 5.03	7.51 6.90	4.27 3.71	7.34 5.89	6.86 5.71	2.48 3.80	22
23	5.87 7.23	3.33 2.18	2.29 4.13	6.22 7.73	2.54 3.93	6.43 7.26	4.05 4.47	7.14 6.12	4.36 3.57	7.02 5.83	6.61 5.48	2.44	23
24	5.89 7.39	3.58	2.31 4.06	6.20 7.21	2.47 3.59	6.44 6.46	3.93 4.33	7.12 5.69	5.19 4.22	7.61 5.80	4.15 2.47	6.42 5.33	24
25	2.22 3.88	5.90 7.43	2.08 3.72	6.04 6.48	1.97 3.30	6.25 5.87	4.13 4.23	7.19 5.34	5.09 3.43	6.91 5.56	4.49 2.68	6.35 5.40	25
26	2.38 4.28	6.08 7.56	1.88 3.62	6.02 6.16	2.15 3.11	6.33 5.46	4.25 3.66	6.86 4.84	5.09 3.43	6.93	4.75 2.64	6.18 5.43	26
27	2.52 4.34	6.11 7.10	2.10 3.49	6.42 5.81	2.75 3.33	6.88 5.60	4.24 3.13	6.51 4.80	5.89 7.23	5.10 3.64	4.75 2.50	5.93 5.44	27
28	2.39 4.26	6.06 6.75	2.42 3.12	6.50 5.46	3.52 2.79	7.00 5.02	4.43 3.09	6.61	6.43 7.39	5.36 3.40	4.28 1.82	5.51	28
29	2.20 3.36	5.78 5.71	2.61 2.56	6.32 5.22	3.53 2.46	6.82	5.68 7.53	5.21 3.41			5.15 5.35	3.47 1.87	29
30	1.54 2.84	5.32 5.53	2.95 2.41	6.56	5.10 6.75	3.81 2.15	6.28 7.45	5.32 3.12			5.41 5.67	3.21 1.91	30
31	2.04 2.74	5.95 5.53			5.19 6.77	3.96 1.93	6.32 7.31	5.07 2.75			5.77 5.86	2.79 2.26	31
MAXIMUM		7.56		7.87		7.93		9.75		8.50		7.86	MAXIMUM
MINIMUM		1.54		1.88		1.93		2.11		2.70		1.82	MINIMUM

LOCATION: LAT. 38 08 42, LONG. 121 41 30, SW SEC. 31, T4N, R3E
ON DOCK AT U. S. ENGINEERS TRANSPORTATION DEPOT,
1.1 MILES BELOW STATE HIGHWAY 12 BRIDGE.

PERIOD OF RECORD: 1925 TO DATE

TABLE H-12 (CONTINUED)

DAILY TIDES

H91210 SACRAMENTO RIVER AT RIO VISTA
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	6.04 5.67	2.41 1.89	6.92 5.69	2.01 3.06	8.18 6.29	2.39 4.26	7.67 5.95	1.92 3.56	6.90 6.52	2.48 3.31	2.79 2.92	5.82 6.74	1
2	5.75 5.32	1.64 1.87	7.04 5.62	1.83 3.18	8.04 6.22	2.23 4.08	7.48 6.00	2.01 3.40	6.48 6.63	2.47 3.40	2.74 3.35	5.59 6.69	2
3	6.03 5.20	1.44 2.03	7.11 5.76	1.74 3.62	7.81 6.26	2.16 4.01	6.96 6.04	1.83 3.20	3.20 2.71	6.14 6.72	2.62 3.68	5.30 6.64	3
4	6.36 5.42	1.46 2.61	7.51 6.00	2.01 3.84	7.47 6.29	2.10 3.96	3.25 1.71	6.43 6.11	3.04 3.04	5.75 6.90	2.80 4.72	5.61 7.29	4
5	6.75 5.64	1.66 3.37	7.42 5.85	1.72 3.89	3.96 1.95	7.08 6.16	3.02 2.16	6.03 6.52	3.07 3.65	5.55 7.07	3.03 4.50	5.62 6.67	5
6	7.17 5.66	1.92 3.64	7.15 5.66	1.54 3.98	3.53 1.71	6.27 6.21	3.14 2.42	5.70 6.62	3.00 4.26	5.54 7.25	2.28 4.03	5.32 6.40	6
7	7.04 5.36	1.59 3.98	3.73 1.75	6.83 5.93	3.19 1.80	5.66 6.34	2.76 2.62	5.13 6.66	2.93 4.47	5.51 7.20	2.10 3.68	5.34 6.30	7
8	3.60 1.49	6.66 5.35	3.69 1.40	6.36 5.77	2.84 2.19	5.30 6.64	2.51 3.13	4.90 6.76	2.78 4.57	5.70 7.15	1.81 3.41	5.44 6.30	8
9	3.88 1.54	6.48 5.52	3.32 1.48	5.81 5.86	2.68 3.04	5.27 6.94	2.29 3.60	4.97 6.98	2.54 4.35	5.62 7.05	6.33 5.77	1.99 3.77	9
10	3.84 1.63	6.22 5.83	2.89 1.50	5.33 6.06	2.67 3.64	5.43 7.24	2.46 4.09	5.38 7.21	2.27 4.06	5.58 7.05	6.95 6.11	2.76 3.50	10
11	3.64 1.82	6.13 5.82	2.57 2.05	5.39 6.08	2.61 3.98	5.63 7.24	2.40 4.40	5.63 7.21	7.02 4.80	2.27 4.13	6.60 6.01	2.45 3.10	11
12	6.00 6.09	3.22 2.12	6.50 5.56	2.61 2.67	7.30 5.61	2.40 4.10	7.33 5.81	2.39 4.50	7.15 5.87	2.38 3.77	6.44 6.19	2.49 2.95	12
13	6.25 6.06	2.83 2.20	6.75 5.80	2.61 3.03	7.19 5.70	2.25 4.24	7.53 6.15	2.71 4.89	7.01 5.73	2.25 3.38	6.32 6.48	2.78 2.86	13
14	6.20 5.72	2.33 2.35	6.97 5.91	2.48 3.48	7.29 5.50	2.10 3.99	7.72 6.26	2.79 4.74	6.85 5.89	2.27 3.30	6.12 6.51	2.72 2.53	14
15	6.29 5.77	2.20 2.52	6.96 5.66	2.13 3.51	6.91 5.55	1.72 4.41	7.58 6.06	2.55 4.42	6.75 6.09	2.48 3.21	5.85 6.74	2.94 3.10	15
16	6.44 5.67	1.95 2.75	6.85 5.55	1.87 3.57	7.10 5.71	1.93 4.36	7.33 6.09	2.45 4.18	6.44 6.23	2.47 3.03	2.60 3.25	5.75 6.91	16
17	6.56 5.93	2.02 3.30	6.91 5.56	1.88 3.88	7.03 5.50	1.65 3.86	7.15 6.16	2.43 4.02	6.13 6.47	2.55 3.21	2.45 3.37	5.50 6.93	17
18	6.48 5.54	1.60 3.53	7.07 5.94	1.98 4.50	6.47 5.35	1.46 3.75	6.88 6.20	2.46 3.83	3.00 2.78	5.92 6.54	2.36 3.75	5.40 7.02	18
19	6.59 5.27	1.42 3.38	7.36 5.97	2.31 4.33	6.31 5.58	1.54 3.76	6.54 6.24	2.40 4.02	2.79 2.98	5.54 6.71	2.24 4.12	5.45 6.92	19
20	6.13 5.00	1.10 3.55	6.97 5.67	1.89 4.22	6.13 5.65	1.58 3.58	3.61 2.39	6.10 6.40	2.52 3.27	5.18 6.86	2.09 3.86	5.52 6.74	20
21	6.18 5.10	1.32 3.81	6.67 5.87	1.92 4.43	3.63 1.75	5.88 6.03	3.19 2.34	5.47 6.45	2.53 3.85	5.12 6.99	1.91 3.51	5.52 6.67	21
22	6.11 5.34	1.46 3.98	6.43 5.87	1.94 4.57	3.87 2.23	5.94 6.20	2.88 2.69	5.09 6.76	2.23 3.98	5.13 7.08	2.07 3.37	5.79 6.64	22
23	4.37 1.68	6.14 5.44	4.24 1.99	6.04 6.07	3.24 2.22	5.10 6.26	2.66 3.18	4.92 6.87	2.21 4.19	5.43 7.15	2.14 3.08	5.93 6.64	23
24	4.50 1.68	5.85 5.46	3.95 1.83	5.54 5.98	2.70 2.66	4.85 6.67	2.24 3.42	4.77 6.97	1.95 3.75	5.45 7.08	6.61 6.34	2.27 2.89	24
25	4.33 1.80	5.57 5.68	3.62 2.28	5.39 6.40	2.42 3.00	4.83 6.97	1.91 3.77	4.98 7.32	7.26 5.68	2.06 3.42	6.35 6.06	2.16 2.33	25
26	4.01 1.91	5.43 6.00	3.16 2.34	5.08 6.50	2.12 3.50	5.07 7.31	1.99 4.27	5.42 6.40	7.13 6.10	2.19 3.44	6.05 6.15	2.23 2.10	26
27	3.70 2.29	5.67 6.00	2.55 2.40	4.95 6.48	2.08 3.94	5.38 6.94	7.95 6.03	2.52 4.34	7.22 6.08	2.31 2.96	5.85 6.36	2.46 2.10	27
28	6.30 5.75	3.15 2.67	1.98 2.70	5.00 6.50	7.76 5.93	2.34 4.32	8.01 6.14	2.61 4.00	6.78 6.16	2.12 2.75	5.80 6.58	2.80 2.22	28
29	6.51 5.66	2.58 2.68	6.88 5.46	2.00 3.39	7.99 5.96	2.33 4.13	7.88 6.14	2.44 3.68	6.55 6.50	2.31 3.00	5.80 6.70	3.22 6.92	29
30	6.84 5.79	2.38 2.81	7.52 6.16	2.48 4.32	7.90 5.96	2.14 3.82	7.58 6.21	2.35 3.41	6.61 6.82	3.01 3.00	2.44 3.78	5.89 6.92	30
31			8.15 6.29	2.52 4.40			7.26 6.31	2.32 3.23	6.27 6.83	3.07			31
MAXIMUM	7.17		8.15		8.18		8.01		7.26		7.29		MAXIMUM
MINIMUM	1.10		1.40		1.46		1.71		1.95		1.81		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.2 - 12/26/55

ZERO OF GAGE: 1925 0.00 USED
 1961 -0.57 USED
 1961 -3.63 USCGS
 1964 -3.80 USCGS
 1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

H91160 THREEMILE SLOUGH AT SACRAMENTO RIVER
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	NR	NR	NR	NR	2.40 3.89	0.57 -0.34	2.42 4.05	1.34 -0.66	3.13 4.32	1.72 -0.16	3.60 4.41	2.09 0.42	1
2	NR	NR	NR	NR	2.77 4.24	1.13 -0.25	2.76 4.39	1.54 -0.26	3.23 4.42	1.56 -0.02	3.58 4.38	1.61 0.42	2
3	NR	NR	NR	NR	2.91 4.38	1.30 0.11	3.15 4.44	1.60 -0.43	3.54 4.73	1.63 0.31	3.74 4.69	1.45 0.82	3
4	NR	NR	3.00 3.93	0.71 -0.27	3.38 4.72	1.77 -0.13	2.95 4.34	1.54 -0.56	3.95 4.83	1.64 0.41	4.19 4.66	1.44 0.88	4
5	NR	NR	2.80 3.74	0.61 -0.64	3.02 4.40	1.61 -0.37	2.91 4.16	1.30 -0.65	3.95 4.19	1.22 0.22	4.32 4.42	1.25 0.92	5
6	NR	NR	2.63 3.88	0.85 -0.57	3.52 4.60	1.95 -0.09	2.87 4.08	1.15 -0.53	4.17 4.30	1.34	4.62 4.46	1.31 1.16	6
7	NR	NR	2.79 4.29	1.31 -0.44	3.29 4.71	1.99	3.09 3.80	1.10	1.09 1.25	4.69 3.75	4.72 3.99	1.00 1.35	7
8	NR	NR	2.66 3.70	1.20	-0.11 1.80	3.22 4.20	-0.63 0.78	3.04 3.54	0.88 0.93	4.43 3.25	4.87 3.72	0.80	8
9	NR	NR	-0.83 1.28	2.49 3.67	-0.59 1.45	2.85 3.69	-0.18 1.80	3.93 3.95	1.17 0.82	4.55 3.20	1.73 0.74	4.92 3.25	9
10	NR	NR	-0.73 1.73	2.87 3.73	-0.75 1.37	2.76 3.31	0.20 0.90	3.93 2.83	2.21 1.21	5.16 3.43	1.70 0.63	4.55 3.38	10
11	NR	NR	-0.31 2.08	3.36 3.69	-0.78 1.35	3.06 3.14	0.03 0.76	4.03 2.65	2.69 1.59	5.55 3.72	2.17 0.39	4.69 3.09	11
12	NR	NR	-0.55 1.55	2.80 3.01	-0.68 0.92	3.10 2.45	0.73 0.50	4.45 2.40	2.84 1.22	5.30	2.18 0.10	4.31 3.25	12
13	NR	NR	-0.75 1.93	3.03 3.34	-0.80 0.49	3.22 2.16	1.11 0.29	4.61 2.54	4.01 5.26	2.95 1.01	2.22 -0.26	4.22	13
14	NR	NR	-0.04 1.49	3.71 3.16	-0.46 -0.49	3.16 1.65	1.62 0.20	4.73	3.93 5.55	2.58 1.14	2.93 3.71	1.28 -0.62	14
15	NR	NR	-0.11 0.98	3.72 3.44	-0.31 -0.66	3.43 1.85	3.23 5.60	2.37 1.02	4.01 5.22	2.18 0.81	3.11 3.87	0.96 -0.51	15
16	NR	NR	0.39 0.68	4.18 3.26	0.22 -0.82	3.84	4.23 6.63	3.36 1.80	4.06 5.00	1.83 0.72	3.27 3.98	0.63 -0.23	16
17	NR	NR	0.66 0.46	4.60	2.22 4.55	0.74 -0.57	4.60 6.11	2.95 1.55	4.15 4.76	1.53 0.67	3.73 3.96	0.55 -0.02	17
18	NR	NR	3.42 4.77	0.86 0.20	2.63 4.73	1.01 -0.51	5.09 6.80	3.96 2.21	4.16 4.53	1.26 0.74	3.83 3.70	0.14 0.04	18
19	NR	NR	3.30 4.92	1.02 -0.17	3.03 4.99	1.26 -0.48	5.04 5.91	3.07 1.80	4.32 4.08	1.09 0.80	3.89 3.77	0.04 0.69	19
20	NR	NR	3.24 4.85	1.07 -0.45	3.05 4.95	1.23 -0.55	4.54 5.32	2.61	4.33 3.78	1.04 1.02	4.46 3.78	0.39 0.60	20
21	NR	NR	3.18 4.87	1.21 -0.56	3.15 4.93	1.29 -0.28	1.60 2.28	4.67 4.82	4.41 3.57	1.03	4.12 3.44	0.08 0.89	21
22	NR	NR	3.22 4.92	1.36	3.77 4.90	1.55	1.42 2.04	4.52 3.92	1.43 0.85	4.42 2.98	3.94 2.79	-0.34 0.99	22
23	NR	NR	-0.48 1.37	3.30 4.80	-0.22 1.18	3.51 4.32	1.06 1.50	4.15 3.19	1.55 0.75	4.13 2.95	3.70 2.57	-0.37 1.35	23
24	NR	NR	-0.45 1.31	3.28 4.30	-0.31 0.87	3.52 3.56	0.98 1.41	4.17 2.79	2.38 1.38	4.74 2.92	3.53 2.44	-0.34	24
25	NR	NR	-0.68 0.97	3.12 3.57	-0.73 0.54	3.31 2.95	1.23 1.32	4.25 2.46	2.31 0.62	4.07 2.71	1.71 -0.13	3.47 2.51	25
26	NR	NR	-0.88 0.88	3.10 3.27	-0.61 0.36	3.40 2.56	1.38 0.77	3.95 1.96	2.31 0.61	4.07	1.96 -0.16	3.32 2.56	26
27	NR	NR	-0.66 0.74	3.47 2.94	0.00 0.58	3.94 2.71	1.38 0.24	3.61 1.91	3.02 4.36	2.31 0.80	1.96 -0.33	3.09 2.57	27
28	NR	NR	-0.33 0.38	3.58 2.59	0.78 0.03	4.12 2.17	1.60 0.22	3.73	3.54 4.53	2.57 0.55	1.47 -0.98	2.71	28
29	NR	NR	-0.13 -0.20	3.42 2.34	0.79 -0.31	3.95	2.79 4.65	2.41 0.55			2.25 2.46	0.68 -0.96	29
30	NR	NR	0.21 -0.35	3.66	2.22 3.87	1.07 -0.62	3.37 4.56	2.52 0.26			2.47 2.78	0.42 -0.88	30
31	NR	NR			2.31 3.95	1.22 -0.80	3.39 4.42	2.25 -0.12			2.81 2.95	-0.03 -0.53	31
MAXIMUM	NR	NR			4.99		6.80		5.55		4.92		MAXIMUM
MINIMUM	NR	NR			-0.82		-0.66		-0.16		-0.98		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 06 18, LONG. 121 41 57, NE SEC. 13, T3N, R2E
ON SHERMAN ISLAND, 0.1 MILE EAST OF STATE HIGHWAY 160 BRIDGE,
3.6 MILES SOUTH OF RIO VISTA, IN TIDAL ZONE. MAXIMUM GAGE
HEIGHT DOES NOT INDICATE MAXIMUM DISCHARGE.

PERIOD OF RECORD: APR 1929 TO DATE

TABLE H-12 (CONTINUED)

DAILY TIDES

R91160 THREEMILE SLOUGH AT SACRAMENTO RIVER
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	3.11 2.74	-0.39 -0.91	3.98 2.76	-0.77 0.16	5.23 3.35	-0.55 1.48	4.71 3.00	-0.87 0.70	3.89 3.51	-0.42 0.41	-0.01 0.16	2.91 3.81	1
2	2.85 2.42	-1.11 -0.90	4.10 2.68	-0.91 0.35	5.10 3.27	-0.76 1.24	4.52 3.04	-0.82 0.57	3.49 3.63	-0.39	-0.05 0.56	2.68 3.76	2
3	3.09 2.29	-1.33 -0.73	4.18 2.87	-1.15 0.77	4.87 3.32	-0.65 1.20	3.99 3.07	-0.97	0.28 -0.14	3.14 3.71	-0.18 0.88	2.39 3.71	3
4	3.40 2.50	-1.33 -0.18	4.58 3.09	-0.86 1.02	4.55 3.35	-0.70	0.38 -1.08	3.48 3.14	0.09 0.15	2.78 3.90	-0.03 1.90	2.72 4.32	4
5	3.81 2.71	-1.15 0.53	4.51 2.92	-1.08 1.02	1.08 -0.86	4.15 3.22	0.18 -0.69	3.07 3.55	0.19 0.76	2.57 4.09	0.19 1.68	2.71 3.75	5
6	4.25 2.75	-0.88 0.87	4.25 2.72	-1.32	0.75 -1.15	3.34 3.26	0.36 -0.38	2.73 3.65	0.07 1.35	2.57 4.24	-0.51 1.24	2.40 3.48	6
7	4.12 2.46	-1.19	0.90 -1.11	3.91 2.97	0.31 -0.99	2.74 3.39	-0.11 -0.15	2.20 3.69	0.02 1.63	2.54 4.21	-0.71 0.89	2.45 3.40	7
8	0.82 -1.35	3.75 2.43	0.85 -1.45	3.43 2.85	0.07 -0.59	2.39 3.69	-0.31 0.34	2.00 3.82	-0.13 1.72	2.73 4.16	-0.93 0.65	2.53	8
9	1.11 -1.28	3.59 2.60	0.49 -1.34	2.91 2.93	-0.14 0.18	2.35 4.02	-0.52 0.81	2.04 4.05	-0.38 1.43	2.65	3.42 2.86	-0.80 0.93	9
10	1.05 -1.19	3.32 2.89	0.12 -1.28	2.45 3.12	-0.12 0.84	2.53 4.30	-0.44 1.33	2.46 4.26	4.07 2.60	-0.64 1.16	3.98 3.17	-0.07 0.67	10
11	0.85 -1.01	3.22	-0.22 -0.79	2.48	-0.19 1.17	2.71	-0.47 1.57	2.70	4.05 2.81	-0.57 1.23	3.67 3.08	-0.34 0.30	11
12	3.06 3.18	0.38 -0.75	3.55 2.69	-0.22 -0.22	4.35 2.75	-0.46 1.26	4.40 2.87	-0.56 1.69	4.19 2.90	-0.49 0.93	3.50 3.26	-0.30 0.13	12
13	3.30 3.12	0.05 -0.58	3.80 2.90	-0.26 0.23	4.28 2.76	-0.56 1.45	4.60 3.23	-0.27 2.06	4.01 2.75	-0.61 0.41	3.40 3.53	-0.02 0.04	13
14	3.28 2.80	-0.47 -0.51	4.03 2.97	-0.34 0.72	4.35 2.58	-0.70 1.19	4.81 3.31	-0.12 1.86	3.85 2.89	-0.60 0.37	3.16 3.58	-0.06 -0.27	14
15	3.37 2.83	-0.62 -0.30	4.05 2.72	-0.72 0.70	3.97 2.60	-1.13 1.57	4.64 3.06	-0.42 1.54	3.75 3.09	-0.40 0.35	2.93 3.78	0.16	15
16	3.51 2.74	-0.84 -0.04	3.94 2.63	-0.93 0.77	4.21 2.79	-0.91 1.53	4.35 3.09	-0.43 1.30	3.44 3.22	-0.43 0.14	-0.24 0.46	2.82 3.96	16
17	3.63 3.02	-0.88 0.54	3.99 2.64	-0.93 1.05	4.11 2.57	-1.19 1.03	4.15 3.15	-0.36 1.17	3.14 3.47	-0.31	-0.38 0.58	2.57 3.99	17
18	3.55 2.60	-1.22 0.69	4.14 3.01	-0.80 1.68	3.57 2.44	-1.46 0.95	3.87 3.26	-0.35 0.97	0.15 -0.06	2.93 3.56	-0.47 0.96	2.47 4.07	18
19	3.66 2.35	-1.34 0.63	4.47 3.05	-0.57 1.53	3.41 2.64	-1.25 0.96	3.62 3.20	-0.49	-0.06 0.11	2.56 3.73	-0.57 1.32	2.53 4.03	19
20	3.28 2.11	-1.65 0.80	4.07 2.74	-1.08 1.42	3.24 2.72	-1.19	0.73 -0.44	3.10 3.38	-0.36 0.42	2.21 3.86	-0.71 1.06	2.61 3.83	20
21	3.29 2.18	-1.48 1.01	3.75 2.94	-0.86 1.62	0.82 -1.05	2.96 3.08	0.34 -0.57	2.50 3.45	-0.42 0.98	2.15 4.03	-0.89 0.71	2.59 3.74	21
22	3.23 2.41	-1.36	3.54 2.92	-0.92	1.04 -0.64	3.02 3.27	-0.01 -0.18	2.11 3.77	-0.66 1.10	2.19 4.11	-0.75 0.58	2.89 3.71	22
23	1.57 -1.14	3.26 2.53	1.41 -0.88	3.12 3.11	0.44 -0.67	2.20 3.32	-0.21 0.33	1.94 3.89	-0.71 1.32	2.45 4.18	-0.66 0.28	3.00	23
24	1.72 -1.10	2.99 2.56	1.13 1.00	2.64 3.04	-0.11 -0.18	1.97 3.73	-0.62 0.58	1.81 3.98	-0.91 0.87	2.46	3.66 3.37	-0.52 0.08	24
25	1.56 1.00	2.71 2.76	0.79 -0.59	2.47 3.46	-0.40 0.22	1.93 4.03	-0.95 0.92	2.01 4.33	4.24 2.68	-0.79 0.51	3.43 3.16	-0.57 -0.45	25
26	1.24 -0.89	2.56 3.07	0.32 -0.55	2.18 3.54	-0.66 0.68	2.14 4.37	-0.87 1.36	2.43	4.16 3.10	-0.69 0.54	3.12 3.21	-0.55 -0.69	26
27	0.84 -0.48	2.91	-0.28 -0.40	2.05 3.54	-0.70 1.14	2.43	4.96 3.03	-0.37 1.45	4.23 3.08	-0.57 0.10	2.92 3.42	-0.33 -0.69	27
28	3.38 2.87	0.38 -0.17	-0.79 -0.20	2.08	4.81 2.98	-0.51 1.49	4.98 3.14	-0.31 1.14	3.79 3.15	-0.76 -0.11	2.88 3.64	0.02 -0.59	28
29	3.60 2.75	-0.23 -0.14	3.93 2.52	-0.79 0.57	5.05 3.00	-0.56 1.31	4.84 3.13	-0.43 0.74	NR NR	NR NR	2.87 3.77	0.44	29
30	3.90 2.89	-0.41 0.06	4.58 3.22	-0.46 1.51	4.94 3.00	-0.78 1.04	4.55 3.19	-0.54 0.45	NR NR	NR NR	-0.37 0.98	2.96 3.99	30
31			5.22 3.35	-0.32 1.51			4.24 3.32	-0.55 0.33	3.32 3.91	0.27			31
MAXIMUM	4.25		5.22		5.23		4.98		NR		4.32		MAXIMUM
MINIMUM	-1.65		-1.45		-1.46		-1.08		NR		-0.93		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 6.7 - 12/26/55

ZERO OF GAGE: 1929 TO 1940 0.00 USED
1940 TO 1959 0.00 USCGS
1959 -10.00 USCGS
1964 -10.24 USCGS
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

H91110 SACRAMENTO RIVER AT COLLINSVILLE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.07 3.60	5.38 6.16	1.94 2.04	5.41	4.55 6.04	2.92 1.99	4.54 6.15	3.65 1.64	NR	NR	NR	NR	1
2	2.19 3.28	5.43 6.13	4.70 5.47	2.09 1.94	4.90 6.39	3.46 2.07	4.87 6.50	3.84 1.98	5.32 6.52	3.76	5.61 6.41	3.76 2.44	2
3	2.31 3.14	5.63	4.89 5.87	2.59 2.09	5.05 6.53	3.67 2.40	5.22 6.54	3.89 1.84	2.09 3.84	5.63 6.80	5.77 6.77	3.58 2.83	3
4	6.03 5.81	2.55 2.84	5.15 6.06	3.05 2.00	5.49 6.85	4.08 2.14	5.06 6.47	3.84 1.72	2.46 3.88	6.05 6.92	6.23 6.69	3.51 2.89	4
5	5.74 5.69	2.40 2.38	4.90 5.88	3.01 1.67	5.15 6.54	3.95 1.97	5.04 6.29	3.63 1.65	2.56 3.44	6.05	6.38 6.46	3.30 2.96	5
6	5.51 5.82	2.53 2.31	4.78 6.06	3.20 1.75	5.71 6.77	4.33 2.16	4.98 6.19	3.47 1.74	6.28 6.27	2.46 3.58	6.69 6.48	3.39 3.21	6
7	5.54 6.26	2.92 2.59	4.94 6.39	3.64 1.86	5.41 6.85	4.33 2.21	5.21 5.93	3.41 1.68	6.40 6.78	3.28	6.76 6.02	3.01 3.44	7
8	5.56 6.22	3.26 2.37	4.79 5.85	3.54 1.48	5.33 6.36	4.17 1.74	5.17 5.73	3.19	NR	NR	6.95 5.74	2.84 3.78	8
9	5.37 6.36	3.37 2.39	4.63 5.81	3.64	4.96 5.84	3.85	NR	NR	5.30 6.65	3.36 2.97	6.98 5.30	2.77	9
10	5.29 6.27	3.65 2.31	1.61 4.03	4.98 5.92	1.55 3.75	4.91 5.47	NR	NR	5.31 7.27	4.38 3.29	3.84 2.61	6.62 5.38	10
11	5.13 6.15	3.85	2.03 4.35	5.38 5.80	1.57 3.70	5.20 5.29	NR	NR	5.53 7.62	4.81	4.32 2.45	6.72 5.15	11
12	2.17 4.11	4.94 6.12	1.73 3.89	4.93 5.15	1.65 3.25	5.23 4.61	NR	NR	3.58 4.91	5.81 7.41	4.36 2.22	6.38 5.20	12
13	2.06 4.22	4.81 6.09	1.57 4.38	5.18 5.57	1.53 2.83	5.37 4.33	NR	NR	3.22 5.00	6.09 7.36	4.36 1.84	6.20 4.96	13
14	2.15 4.37	4.96 5.80	2.27 3.84	5.81 5.30	1.89 1.85	5.33 3.80	NR	NR	2.91 4.61	5.99 7.60	3.44 1.52	5.80	14
15	2.34 4.63	5.33 5.81	2.21 3.34	5.86 5.54	2.05 1.67	5.60 3.99	NR	NR	3.00 4.17	6.06 7.29	5.14 5.94	3.18 1.65	15
16	2.04 3.88	5.19 5.39	2.71 3.00	6.29 5.36	2.55 1.50	6.00	NR	NR	2.73 3.85	6.11 7.08	5.35 6.02	2.82 1.94	16
17	1.90 3.27	5.28 5.47	2.95 2.76	6.66	4.36 6.71	3.15 1.76	NR	NR	2.67 3.57	6.18 6.82	5.79 6.03	2.70 2.22	17
18	2.11 2.92	5.53 5.60	5.50 6.86	3.17 2.46	4.77 6.86	3.35 1.76	NR	NR	2.62 3.34	6.20 6.58	5.90 5.79	2.38 2.27	18
19	2.49 2.78	5.90	5.39 7.00	3.35 2.10	5.16 7.11	3.58 1.75	NR	NR	2.74 3.17	6.37 6.14	6.02 5.90	2.29 2.92	19
20	5.71 6.09	2.69 2.51	5.32 6.96	3.38 1.84	5.15 7.04	3.52 1.70	NR	NR	2.85 3.13	6.37	6.56 5.81	2.56 2.88	20
21	5.53 6.12	2.68 2.00	5.26 6.99	3.54 1.71	5.25 7.04	3.59 1.98	NR	NR	5.83 6.47	3.14 3.13	6.26 5.51	2.35 3.12	21
22	5.21 6.31	2.75 1.81	5.32 7.05	3.70 1.80	5.82 6.99	3.86	NR	NR	5.63 6.49	3.61 2.98	6.05 4.86	1.84 3.22	22
23	5.14 6.49	2.94 1.73	5.42 6.93	3.73	2.00 3.47	5.61 6.42	NR	NR	5.06 6.23	3.73 2.90	5.80 4.64	1.85 3.58	23
24	5.14 6.69	3.26 1.84	1.84 3.66	5.39 6.40	1.94 3.16	5.62 5.60	NR	NR	5.04 6.86	4.60 3.55	5.62 4.48	1.86 3.85	24
25	5.15 6.68	3.50	1.61 3.31	5.24 5.70	1.60 2.89	5.42 5.05	NR	NR	5.00 6.19	4.52 2.79	5.54 4.55	2.03	25
26	1.91 3.86	5.27 6.75	1.42 3.21	5.21 5.39	1.72 2.69	5.51 4.65	NR	NR	NR	NR	4.16 2.07	5.42 4.68	26
27	2.05 3.93	5.33 6.35	1.67 3.09	5.60 5.09	2.31 2.88	6.06 4.81	NR	NR	NR	NR	4.20 1.84	5.19 4.63	27
28	1.90 3.71	5.28 5.99	2.00 2.72	5.72 4.75	3.07 2.32	6.17 4.24	NR	NR	NR	NR	3.65 1.29	4.78	28
29	1.74 3.05	5.06 5.01	2.22 2.14	5.58 4.49	3.09 1.99	6.03	NR	NR			4.30 4.53	2.95 1.26	29
30	1.17 2.43	4.74 4.80	2.55 1.98	5.81	4.31 5.96	3.39 1.68	NR	NR			4.53 4.87	2.64 1.40	30
31	1.62 2.34	5.21 4.81			4.41 6.06	3.53 1.47	NR	NR			4.93 4.99	2.23 1.63	31
MAXIMUM	6.75		7.05		7.11		NR		NR		NR		MAXIMUM
MINIMUM	1.17		1.42		1.47		NR		NR		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 04 25, LONG. 121 51 18, SW SEC. 27, T3N, R1E
0.4 MILE SOUTHWEST OF COLLINSVILLE, 3.3 MILES NORTHEAST
OF PITTSBURG.

PERIOD OF RECORD: JUN 1929 TO DATE

TABLE H-12 (CONTINUED)

DAILY TIDES

H91110 SACRAMENTO RIVER AT COLLINSVILLE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.13 4.84	1.87 1.34	6.09 4.87	1.52 2.44	7.18 5.33	1.76 3.71	6.76 5.03	1.44 3.08	5.93 5.59	1.95 2.70	2.30 2.56	4.98 5.87	1
2	4.93 4.51	1.19 1.39	6.16 4.78	1.28 2.65	7.15 5.30	1.71 3.58	6.55 5.07	1.51 2.87	5.50 5.72	2.02	2.20 2.86	4.70 5.76	2
3	5.25 4.44	0.99 1.58	6.31 4.88	1.11 3.08	6.94 5.35	1.66 3.49	6.02 5.10	1.36 2.71	2.63 2.23	5.19 5.76	2.08 3.22	4.45 5.73	3
4	5.55 4.62	0.98 2.12	6.63 5.17	1.38 3.34	6.58 5.36	1.59 3.39	5.55 5.18	1.27	2.43 2.52	4.81 5.97	2.13 3.97	4.63 6.24	4
5	5.97 4.84	1.14 2.75	6.60 5.00	1.22 3.34	6.20 5.29	1.48	2.51 1.63	5.11 5.54	2.46 3.07	4.64 6.12	2.27 3.84	4.72 5.76	5
6	6.34 4.81	1.37 3.04	6.40 4.78	0.99 3.11	3.02 1.27	5.45 5.35	2.59 1.87	4.75 5.66	2.35 3.59	4.54 6.17	1.76 3.53	4.45 5.53	6
7	6.25 4.57	1.10 3.14	5.99 5.00	1.08	2.74 1.37	4.86 5.49	2.25 2.13	4.25 5.70	2.21 3.81	4.59 6.19	1.54 3.24	4.51 5.46	7
8	5.90 4.52	0.96	3.12 0.88	5.55 4.88	2.41 1.79	4.53 5.78	1.97 2.62	4.03 5.83	2.10 3.95	4.72 6.12	1.40 2.99	4.64 5.55	8
9	3.38 1.01	5.71 4.70	2.75 0.93	5.00 4.99	2.21 2.50	4.41 6.05	1.79 3.14	4.10 6.05	1.90 3.72	4.70 6.13	1.53 3.17	4.92	9
10	3.37 1.09	5.45 4.98	2.41 1.09	4.60 5.24	2.11 3.07	4.56 6.32	1.87 3.58	4.47 6.23	1.72 3.53	4.71	5.87 5.16	2.07 2.79	10
11	3.15 1.28	5.37 5.13	2.16 1.61	4.62 5.64	2.08 3.41	4.75 6.35	1.82 3.83	4.69 6.40	6.12 4.87	1.77 3.53	5.65 5.13	1.92 2.48	11
12	2.69 1.53	5.27	2.12 2.17	4.78 5.85	1.76 3.46	4.71	1.81 3.90	4.90	6.21 4.92	1.82 3.23	5.55 5.30	1.98 2.33	12
13	5.40 5.23	2.39 1.71	2.05 2.55	4.95	6.32 4.78	1.67 3.70	6.51 5.11	2.02 4.15	6.07 4.88	1.77 2.88	5.40 5.52	2.17 2.24	13
14	5.43 4.94	1.86 1.75	6.05 5.01	1.89 2.96	6.31 4.65	1.58 3.49	6.65 5.16	2.10 3.90	5.94 5.01	1.82 2.77	5.20 5.63	2.24 2.00	14
15	5.51 4.94	1.66 1.97	6.14 4.78	1.64 2.99	6.03 4.63	1.22 3.69	6.53 5.04	1.89 3.72	5.78 5.16	1.97 2.71	4.98 5.82	2.43 1.96	15
16	5.61 4.85	1.46 2.21	6.03 4.69	1.47 3.10	6.24 4.73	1.39 3.69	6.36 5.09	1.84 3.52	5.55 5.31	1.95 2.53	4.84 5.98	2.71	16
17	5.75 4.88	1.42 2.78	6.05 4.71	1.41 3.38	6.16 4.57	1.27 3.36	6.14 5.11	1.83 3.35	5.26 5.51	2.09 2.44	1.90 2.89	4.64 6.00	17
18	5.66 4.57	1.07 2.88	6.19 4.98	1.46 3.89	5.66 4.49	1.01 3.26	5.92 5.16	1.82 3.11	5.02 5.65	2.31	1.76 3.24	4.50 6.06	18
19	5.77 4.44	0.97 2.87	6.42 5.04	1.65 3.83	5.52 4.70	1.10 3.30	5.54 5.20	1.78 2.89	2.26 2.51	4.67 5.77	1.69 3.58	4.56 6.06	19
20	5.41 4.21	0.83 3.08	6.13 4.81	1.39 3.72	5.35 4.81	1.16 3.16	5.16 5.40	1.88	1.99 2.77	4.31 5.93	1.59 3.33	4.60 5.87	20
21	5.42 4.27	0.85 3.32	5.82 4.96	1.39 3.87	5.11 5.14	1.36	2.71 1.90	4.64 5.52	1.88 3.31	4.24 6.09	1.40 2.98	4.66 5.81	21
22	5.35 4.49	0.97 3.77	5.63 4.94	1.36	3.30 1.66	4.88 5.28	2.34 2.21	4.24 5.82	1.68 3.39	4.24 6.20	1.51 2.88	4.95 5.81	22
23	5.38 4.59	1.17	3.73 1.34	5.17 5.04	2.70 1.72	4.28 5.41	2.10 2.69	4.04 5.94	1.52 3.53	4.48 6.24	1.59 2.55	5.06	23
24	3.95 1.20	5.13 4.65	3.41 1.32	4.69 5.12	2.21 2.17	4.04 5.77	1.72 2.95	3.95 6.06	1.44 3.19	4.56 6.30	5.68 5.38	1.82 2.35	24
25	3.83 1.31	4.85 4.86	3.10 1.70	4.50 5.46	1.89 2.54	4.02 6.09	1.43 3.29	4.14 6.42	1.55 2.93	4.81	5.52 5.32	1.74 1.87	25
26	3.54 1.43	4.69 5.14	2.64 1.77	4.23 5.51	1.64 3.04	4.21 6.42	1.52 3.69	4.57 6.97	6.25 5.13	1.62 2.92	5.24 5.34	1.82 1.65	26
27	3.09 1.75	4.87 5.51	2.04 1.92	4.13 5.62	1.62 3.42	4.51 6.83	1.94 3.71	5.07	6.28 5.17	1.79 2.47	5.05 5.53	2.04 1.64	27
28	2.68 2.06	4.99 5.75	1.55 2.31	4.20 6.03	1.80 3.77	4.99	6.97 5.16	1.97 3.43	5.90 5.29	1.69 2.29	5.00 5.75	2.39 1.73	28
29	2.15 2.14	4.87	1.55 2.93	4.60 6.58	7.06 5.01	1.69 3.57	6.85 5.19	1.90 3.10	5.72 5.59	1.90 2.45	4.97 5.86	2.77 1.87	29
30	5.98 5.02	1.85 2.32	1.83 3.75	5.21	6.97 5.04	1.57 3.32	6.54 5.25	1.82 2.82	5.66 5.91	2.43 2.46	4.96 6.03	3.20	30
31			7.19 5.34	1.94 3.78			6.30 5.41	1.82 2.71	5.35 5.95	2.51			31
MAXIMUM	6.34		7.19		7.18		6.97		6.30		6.24		MAXIMUM
MINIMUM	0.83		0.88		1.01		1.27		1.44		1.40		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 9.2 - 4/6/58

ZERO OF GAGE: 1929 0.00 USED
1929 -3.05 USCGS
1964 -3.54 USCGS
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

895820 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	3.86 3.31	2.36 2.69	2.54 2.85	1.70	2.23 2.24	2.65 3.56	1.94 2.23	2.46 3.61	NR	NR	NR	NR	1
2	3.76 3.21	2.31 2.54	1.85 1.73	2.45 2.91	2.30 2.50	2.91 3.82	1.90 2.47	2.83 3.87	NR	NR	NR	NR	2
3	3.66 3.50	2.43	1.87 1.87	2.55 3.18	2.35 2.53	2.96 3.71	2.16 2.69	3.20 3.99	NR	NR	NR	NR	3
4	2.78 2.83	3.79 3.79	2.05 2.12	2.79 3.42	2.35 2.90	3.28 4.37	2.13 2.66	3.07 4.02	NR	NR	NR	NR	4
5	3.07 2.75	3.59 3.47	2.14 2.17	2.74 3.35	2.57 2.77	3.17 4.02	2.11 2.45	2.92 3.79	NR	NR	NR	NR	5
6	2.62 2.50	3.27 3.47	1.99 2.03	2.53 3.38	2.19 2.71	3.07 4.14	2.05 2.44	2.91 3.67	NR	NR	NR	NR	6
7	2.45 2.44	3.23 3.78	1.99 2.23	2.63 3.74	2.46 2.94	3.27 4.32	2.10 2.39	2.97 3.40	NR	NR	NR	NR	7
8	2.61 2.55	3.29 3.82	2.12 1.98	2.63 3.13	2.55 2.95	3.36 4.05	1.92 2.05	2.79 2.96	NR	NR	NR	NR	8
9	2.54 2.49	3.07 3.92	1.33 1.84	2.17 3.05	2.35 2.64	3.01 3.60	1.82 2.55	3.04 3.67	NR	NR	NR	NR	9
10	2.49 2.48	2.99 3.92	1.32 1.96	2.26 3.04	2.10 2.54	2.86 3.30	2.30 2.52	3.56	NR	NR	NR	NR	10
11	2.48 2.52	2.94 3.85	1.49 2.50	2.91 3.44	2.00 2.53	2.96 3.18	3.01 3.54	2.18 2.74	NR	NR	NR	NR	11
12	2.36 2.48	2.80 3.75	1.52 2.04	2.48 2.75	1.97 2.35	2.95 2.73	3.21 4.35	2.87 3.11	NR	NR	NR	NR	12
13	2.16 2.44	2.71 3.72	1.25 1.94	2.29	1.81 2.14	2.94	3.33 4.56	3.03	NR	NR	NR	NR	13
14	2.13 2.44	2.77 3.49	2.62 3.24	1.52 2.30	2.41 2.84	1.74 1.85	3.60 3.88	4.00 4.99	NR	NR	NR	NR	14
15	2.06 2.59	2.96	2.87 2.96	1.68 2.17	2.07 2.97	1.68	3.70 3.87	4.06 5.38	NR	NR	NR	NR	15
16	3.47 2.93	2.02 2.34	3.18 3.63	2.12	1.85 1.83	2.16 3.24	NR	NR	NR	NR	NR	NR	16
17	3.13 2.93	1.88 2.22	2.50 2.46	3.28 4.05	1.91 2.01	2.32 3.65	4.34 4.42	4.96 5.95	NR	NR	NR	NR	17
18	3.13 3.17	2.03 2.36	2.74 2.74	3.41 4.11	2.07 2.23	2.62 3.81	4.63A	7.50A	NR	NR	NR	NR	18
19	3.31 3.44	2.28	2.80 2.81	3.37 4.21	2.09 2.43	2.86 4.13	6.17 5.94	6.38 6.82	NR	NR	NR	NR	19
20	2.39 2.28	3.29 3.53	2.67 2.70	3.18 4.25	2.28 2.55	2.99 4.18	5.62 5.71	6.04 6.52	NR	NR	NR	NR	20
21	2.31 2.18	3.11 3.41	2.51 2.70	3.19 4.28	2.38 2.71	3.15 4.27	5.62 5.65	6.05 6.09	NR	NR	NR	NR	21
22	2.19 2.39	2.95 3.76	2.46 2.80	3.22 4.33	2.61 3.05	3.57 4.40	5.28 5.20	5.74 5.54	NR	NR	NR	NR	22
23	2.67 2.77	3.10 4.09	2.53 2.79	3.24 4.16	2.66 2.79	3.42 3.93	4.86 4.82	5.39 5.08	NR	NR	NR	NR	23
24	2.88 2.93	3.23 4.33	2.47 2.78	3.23 3.97	2.51 2.67	3.40 3.40	4.58 4.65	5.29	NR	NR	NR	NR	24
25	2.93 2.94	3.25 4.33	2.38 2.59	3.09 3.45	2.15 2.26	3.02 2.85	4.81 5.26	4.41 4.41	NR	NR	NR	NR	25
26	2.96 3.15	3.38 4.54	2.17 2.49	3.00 3.19	1.90 2.17	2.98	4.53 5.06	4.22	NR	NR	NR	NR	26
27	3.12 3.26	3.55 4.24	2.13 2.49	3.17	2.65 3.31	1.94 2.33	4.73A	3.81A	NR	NR	NR	NR	27
28	2.96 3.09	3.38 3.96	3.02 3.33	2.15 2.42	2.87 4.03	2.28	3.73 3.80	3.89 4.57	NR	NR	NR	NR	28
29	2.60 2.56	3.26	2.83 3.20	2.11	2.40 2.18	2.60 3.60	3.60 4.02	4.08 4.97			NR	NR	29
30	2.95 2.67	1.83 1.97	2.21 2.13	2.60 3.37	2.05 2.12	2.42 3.37	3.73 4.16	4.34 5.04			NR	NR	30
31	2.71 2.75	1.75 1.85			1.88 2.20	2.44 3.67	3.73 4.11	4.34 5.06			NR	NR	31
MAXIMUM	4.54		4.33		4.40		NR		NR		NR		MAXIMUM
MINIMUM	1.75		1.25		1.68		NR		NR		NR		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 37 47 12, LONG. 121 18 21, SW SEC 3, T2S, R6E,
ON OLD U.S. HWY 50 BRIDGE, 3.0 MILES SW OF LATHROP.

PERIOD OF RECORD: 1920 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

R95820 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	NR	NR	2.16 2.00	3.44 2.90	NR	NR	NR	NR	NR	NR	NR	NR	1
2	NR	NR	2.23 1.95	3.62 2.83	NR	NR	NR	NR	NR	NR	NR	NR	2
3	NR	NR	2.23 1.98	3.63 2.89	NR	NR	NR	NR	NR	NR	NR	NR	3
4	NR	NR	2.36 2.11	4.09 3.02	NR	NR	NR	NR	NR	NR	NR	NR	4
5	NR	NR	2.46 2.00	4.12 2.75	NR	NR	NR	NR	NR	NR	NR	NR	5
6	NR	NR	2.10 1.45	3.44	NR	NR	NR	NR	NR	NR	NR	NR	6
7	NR	NR	2.43 3.35	1.92 1.45	NR	NR	NR	NR	NR	NR	NR	NR	7
8	NR	NR	2.59 3.18	1.89 1.24	NR	NR	NR	NR	NR	NR	NR	NR	8
9	NR	NR	2.44 2.68	1.63 0.99	NR	NR	NR	NR	NR	NR	NR	NR	9
10	NR	NR	2.11A	0.77A	NR	NR	NR	NR	NR	NR	NR	NR	10
11	NR	NR	2.21 2.10	1.12 0.97	NR	NR	NR	NR	NR	NR	NR	NR	11
12	NR	NR	2.78 2.33	1.19 1.24	NR	NR	NR	NR	NR	NR	NR	NR	12
13	NR	NR	3.08 2.50	1.38	NR	NR	NR	NR	NR	NR	NR	NR	13
14	NR	NR	1.48 1.43	3.31 2.31	NR	NR	NR	NR	NR	NR	1.40 1.17	2.41 2.89	14
15	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1.24 1.18	2.19 2.78	15
16	3.06 2.99	3.83 3.56	NR	NR	NR	NR	NR	NR	NR	NR	1.24 1.40	2.27 2.95	16
17	3.00 2.91	3.94 3.70	NR	NR	NR	NR	NR	NR	NR	NR	1.27 1.50	2.25 3.10	17
18	3.16 2.71	3.87 3.28	NR	NR	NR	NR	NR	NR	NR	NR	1.22 1.63	2.21 3.24	18
19	2.87 2.36	3.77 2.84	NR	NR	NR	NR	NR	NR	NR	NR	1.20 1.80	2.33	19
20	2.44 1.83	3.50	NR	NR	NR	NR	NR	NR	NR	NR	3.19 2.40	1.12 1.80	20
21	2.52 3.21	2.24 1.74	NR	NR	NR	NR	NR	NR	NR	NR	3.13 2.29	1.20 1.63	21
22	2.47 3.10	2.20 1.56	NR	NR	NR	NR	NR	NR	NR	NR	2.94 2.27	1.12 1.45	22
23	2.50 3.27	2.33 1.58	NR	NR	NR	NR	NR	NR	NR	NR	2.87 2.46	1.21	23
24	2.59 3.00	2.34 1.25	NR	NR	NR	NR	NR	NR	NR	NR	1.52 1.39	2.84 2.85	24
25	2.44 2.66	2.06 1.03	NR	NR	NR	NR	NR	NR	NR	NR	1.66 1.45	2.78 2.70	25
26	2.46 2.39	1.83 1.00	NR	NR	NR	NR	NR	NR	NR	NR	1.38 1.31	2.52 2.61	26
27	2.70 2.81	1.93 1.60	NR	NR	NR	NR	NR	NR	NR	NR	1.30 1.31	2.31 2.64	27
28	3.10 2.77	2.00 1.85	NR	NR	NR	NR	NR	NR	NR	NR	1.24 1.35	2.19 2.79	28
29	3.10 2.68	1.86	NR	NR	NR	NR	NR	NR	NR	NR	1.31 1.40	2.22 2.90	29
30	1.91 2.10	3.28 2.97	NR	NR	NR	NR	NR	NR	NR	NR	1.38 1.72	2.34 2.99	30
31			NR	NR			NR	NR	NR	NR			31
MAXIMUM	NR		NR		NR		NR		NR		NR		MAXIMUM
MINIMUM	NR		NR		NR		NR		NR		NR		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD: 24.4 - 12/10/50

ZERO OF GAGE: 1920 TO 1943 5.16 USED
1943 0.00 USCGS
1964 -0.17 USCGS
1964 TO DATE 0.00 USCGS

TABLE R-12 (CONTINUED)
 DAILY TIDES
 895400 OLD RIVER AT HEAD
 (OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.96 2.75	0.27 1.36	1.98 2.26	-0.06	1.61 1.68	2.30 3.32	1.41 1.87	2.21 3.48	2.98 3.40	3.82 4.59	NR	NR	1
2	2.74 2.84	0.16 0.99	0.14 0.03	1.74 2.31	1.69 2.01	2.61 3.61	1.31 2.12	2.68 3.76	3.06 3.32	3.86 4.56	5.04 5.09	5.61 5.73	2
3	2.69 3.16	0.36	0.09 0.34	1.81 2.86	1.77 2.07	2.70 3.51	NR	NR	3.06 3.41	4.03 4.71	4.68 4.74	5.30 5.53	3
4	1.06 0.65	2.77 3.30	0.32 0.76	2.06 3.01	1.78 2.50	3.03 4.21	NR	NR	3.18 3.34	4.14 4.68	4.66 4.81	5.47 5.52	4
5	0.97 0.47	2.41 2.65	0.36 0.84	2.05 2.93	2.04 2.35	2.95 3.87	NR	NR	3.13 3.18	4.18 4.27	4.73 4.82	5.44 5.66	5
6	0.44 0.45	2.16 2.71	0.03 0.81	1.71 2.91	1.65 2.32	2.88 3.98	NR	NR	2.85 3.12	4.10 4.30	4.79 4.67	5.43 5.53	6
7	0.32 0.66	2.13 3.27	0.10 1.16	2.01 3.36	1.92 2.58	3.07 4.17	NR	NR	3.16 3.54	4.66 4.35	4.65 4.44	5.39 5.16	7
8	0.64 0.85	2.32 3.45	0.28 1.60	2.22 2.99	2.01 2.56	3.14 3.88	NR	NR	3.45 3.43	4.84 4.86	4.53 4.72	5.53 5.38	8
9	0.06 0.95	2.36 3.64	0.67 1.51	1.98 2.91	1.77 2.21	2.75 3.40	NR	NR	NR	NR	4.93 5.21	5.87	9
10	0.16 1.01	2.13 3.65	0.71 1.76	2.14 2.94	1.50 2.10	2.58 3.06	NR	NR	NR	NR	5.79 6.47	5.63 5.71	10
11	0.26 1.23	2.02 3.57	1.08 2.27	2.76 3.31	1.31 2.08	2.70 2.95	NR	NR	NR	NR	6.12 6.49	5.85 5.57	11
12	0.16 1.46	1.87 3.18	1.03 1.73	2.29 2.58	1.31 1.85	2.70 2.45	NR	NR	NR	NR	5.99 6.33	5.76 5.34	12
13	-0.04 1.58	2.05 3.16	0.72 1.65	2.13 2.47	1.17 1.62	2.69	NR	NR	NR	NR	5.81 6.24	5.59	13
14	0.01 1.67	1.78 2.90	1.02 1.92	3.11	2.12 2.59	1.13 1.26	NR	NR	NR	NR	5.10 5.10	5.46 5.70	14
15	0.00 1.57	1.99	2.68 2.79	1.17 1.72	1.71 2.73	1.08 1.26	NR	NR	NR	NR	4.58 4.56	5.06 5.27	15
16	2.61 2.21	-0.15 1.15	2.99 3.46	1.64 2.02	1.83 3.02	1.29	NR	NR	NR	NR	4.23 4.26	4.83 5.14	16
17	2.42 2.28	-0.23 0.79	3.06 3.87	1.94	1.32 1.56	2.03 3.48	NR	NR	NR	NR	4.12 4.15	4.87 5.00	17
18	2.34 2.52	0.02 0.67	2.20 2.18	3.15 3.87	1.53 1.83	2.38 3.67	3.80A	7.08A	NR	NR	4.02 4.08	4.87 4.87	18
19	2.41 2.82	0.42	2.16 2.26	3.07 3.96	1.57 2.05	2.68 3.99	5.21 5.05	5.68 6.34	NR	NR	4.09 4.07	4.92 4.84	19
20	0.69 0.55	2.46 2.98	2.05 2.18	2.84 4.06	1.75 2.13	2.78 4.03	4.63 4.70	5.28 5.86	NR	NR	4.17 4.28	5.22 4.99	20
21	0.52 0.46	2.26 2.68	1.92 2.23	2.94 4.10	1.83 2.26	2.94 4.10	4.56 4.64	5.28 5.38	NR	NR	4.26 4.14	5.07 4.96	21
22	0.12 0.53	1.85 2.59	1.86 2.34	2.96 4.12	2.03 2.60	3.36 4.24	4.22 4.21	5.00 4.81	NR	NR	4.48 4.46	5.35 4.92	22
23	0.16 0.75	1.81 3.19	1.93 2.32	2.96 3.95	2.09 2.30	3.19 3.73	3.78 3.79	4.65 4.28	NR	NR	4.58 4.60	5.34	23
24	0.32 1.25	2.18 3.53	1.87 2.29	2.96 3.75	1.92 2.17	3.15 3.17	3.49 3.64	4.56	NR	NR	5.07 5.54	4.89 4.78	24
25	0.41 1.21	2.27 3.57	1.74 2.05	2.78 3.20	1.57 1.74	2.76 2.59	4.02 4.60	3.38 3.46	NR	NR	5.22 5.66	5.08 4.92	25
26	0.43 1.59	2.45 3.82	1.50 1.94	2.68 2.88	1.29 1.64	2.75	3.73 4.45	3.23 3.09	NR	NR	5.33 5.63	5.21 4.86	26
27	0.63 1.64	2.63 3.49	1.46 1.95	2.88	2.37 3.11	1.40 1.82	3.31 4.18	2.99	NR	NR	5.31 5.51	5.16 4.83	27
28	0.39 1.59	2.40	2.73 3.08	1.52 1.84	2.62 3.81	1.80 1.90	2.73 2.96	3.14 4.00	NR	NR	5.34 5.52	5.15	28
29	3.21 2.21	0.30 1.11	2.50 2.93	1.49 1.59	2.32 3.41	1.70	2.65 3.36	3.50 4.53			4.70 4.73	5.03 5.06	29
30	2.17 1.99	-0.36 0.39	2.23 3.11	1.53	1.51 1.69	2.16 3.19	2.88 3.48	3.84 4.62			4.46 4.58	4.89 4.95	30
31	2.56 2.21	-0.18 0.27			1.33 1.80	2.18 3.48	2.86 3.42	3.81 4.56			4.36 4.49	4.91 5.00	31
MAXIMUM	3.82		4.12		4.24		NR		NR		NR		MAXIMUM
MINIMUM	-0.36		-0.06		1.08		NR		NR		NR		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 37 48 27, LONG. 121 19 44, NE SEC 32, T15, R6E,
 500 FEET BELOW SAN JOAQUIN RIVER, 3.0 MILES WEST
 OF LATHROP.

PERIOD OF RECORD: 1972 TO DATE

TABLE 8-12 (CONTINUED)
 DAILY TIDES
 895400 OLD RIVER AT HEAD
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	4.39	4.94	1.60	3.20	3.25	4.91	1.38	2.82	0.96	2.24	0.80	1.75	1
	4.35	4.85	1.34	2.63	2.82	3.70	0.50	2.11	0.50	2.42	0.63	2.59	
2	4.21	4.76	1.67	3.40	3.21	4.76	1.14	2.92	0.97	2.11	0.79	1.61	2
	4.11	4.56	1.34	2.53	2.74	3.57	0.59	2.10	0.44	2.39	0.75		
3	4.01	4.64	1.68	3.36	3.06	4.44	0.90	2.51	0.81	1.82	2.91	0.65	3
	3.93	4.36	1.36	2.63	2.51	3.21	0.29	2.04	0.43		1.59	1.00	
4	3.90	4.71	1.86	3.91	2.68	4.03	0.77	1.94	2.37	0.66	3.11	0.73	4
	3.91	4.39	1.54	2.82	2.16		0.05		1.48	0.48	2.17	1.97	
5	3.98	4.78	2.01	3.97	3.33	2.62	2.03	0.73	2.45	0.70	3.70	0.97	5
	3.91	4.45	1.46	2.48	3.76	1.99	1.67	0.17	1.54	0.83	2.19	1.66	
6	4.07	5.03	1.74	3.19	3.13	2.24	2.03	0.59	3.10	0.74	2.99	0.46	6
	3.87	4.33	0.92		3.13	1.60	1.61	0.24	2.02	1.52	1.97	1.27	
7	3.89	4.87	2.25	1.54	2.97	1.96	2.09	0.32	3.27	0.67	2.60	0.39	7
	3.53		3.14	0.94	2.64	1.45	1.06	0.10	1.96	1.61	1.98	1.17	
8	3.95	3.56	2.41	1.49	3.02	1.81	1.97	0.11	3.17	0.61	2.45	0.38	8
	4.42	3.10	2.97	0.73	2.40	1.49	0.95	0.37	2.04	1.70	1.79	0.99	
9	3.74	3.42	2.26	1.22	3.14	1.73	2.11	0.03	2.98	0.53	2.32	0.41	9
	4.24	2.92	2.48	0.48	2.27	1.66	1.36	0.80	2.16	1.52	1.90	1.23	
10	3.63	3.23	1.71	0.76	3.36	1.75	2.44	0.26	2.73	0.30	2.72	0.96	10
	4.00	2.72	1.87	0.30	2.40	1.97	1.81	1.25	1.98	1.28	2.62		
11	3.55	2.97	2.06	0.72	3.58	1.80	2.70	0.26	2.66	0.39	1.36	2.74	11
	3.74	2.49	1.96	0.55	2.80	2.28	1.98	1.52	1.81		0.83	2.43	
12	3.49	2.73	2.66	0.95	3.74	1.88	2.71	0.36	1.34	2.65	1.08	2.49	12
	3.63		2.21	0.89	2.85	2.36	2.17	1.68	0.54	2.17	0.79	2.54	
13	2.40	3.40	2.97	1.01	3.76	1.74	2.96	0.70	1.22	2.49	1.07	2.42	13
	2.43	3.45	2.39	1.12	2.73		2.63		0.46	2.02	0.91	2.80	
14	2.21	3.30	3.19	1.04	2.26	3.63	2.07	3.32	0.97	2.10	1.08	2.28	14
	2.14	3.05	2.14		1.34	2.37	0.84	2.73	0.31	2.08	0.85	2.76	
15	2.11	3.31	1.14	3.21	1.79	3.11	2.00	3.06	0.93	1.99	0.91	2.05	15
	2.19	3.07	0.81	1.86	0.83	2.25	0.75	2.53	0.36	2.12	0.90	2.67	
16	2.25	3.35	1.11	3.11	1.89	3.21	1.66	3.16	0.84	2.00	0.89	2.13	16
	2.14	3.08	0.63	1.85	0.93	2.32	0.75	2.45	0.45	2.20	1.10	2.81	
17	2.29	3.53	1.26	3.30	1.80	3.07	1.54	2.74	0.74	1.80	0.89	2.12	17
	2.18	3.29	0.90	1.91	0.81	2.18	0.65	2.45	0.37	2.33	1.17	2.98	
18	2.47	3.50	1.42	3.14	1.46	2.75	1.46	2.42	0.71	1.63	0.84	2.05	18
	1.93	2.88	1.52	3.05	0.60	1.94	0.57	2.40	0.39		1.36	3.12	
19	2.22	3.44	2.70	4.00	1.19	2.47	1.28	2.16	2.35	0.62	0.82	2.19	19
	1.68	2.50	2.14	3.20	0.34	1.95	0.40	2.28	1.32	0.37	1.56		
20	1.87	3.16	2.73	3.74	1.13	2.17	1.03	1.99	2.66	0.38	3.06	0.72	20
	1.35	2.20	2.01	2.74	0.13		0.35		1.25	0.59	2.25	1.51	
21	1.71	2.95	2.51	3.56	1.95	1.01	2.30	0.77	2.95	0.38	3.00	0.76	21
	1.08		2.01		1.91	0.05	1.44	0.08	1.26	0.98	2.16	1.32	
22	2.18	1.73	3.18	2.79	2.06	1.12	2.01	0.50	2.88	0.22	2.81	0.72	22
	2.86	0.94	3.43	2.06	2.10	0.36	1.22	0.26	1.52	1.10	2.14	1.15	
23	2.19	1.92	3.14	2.71	2.21	0.79	2.51	0.41	2.63	0.25	2.76	0.82	23
	3.00	0.99	3.13	2.07	1.46	0.20	1.42	0.62	1.81	1.30	2.33		
24	2.39	1.99	3.07	2.44	2.07	0.53	2.68	0.23	2.74	0.23	1.17	2.71	24
	2.80	0.70	2.71	1.43	1.29	0.39	1.21	0.70	1.84	1.12	0.98	2.72	
25	2.27	1.69	2.73	1.82	2.11	0.43	2.42	0.06	2.65	0.37	1.28	2.64	25
	2.45	0.51	2.36	1.25	1.41	0.59	1.43	0.96	1.69	0.93	1.02	2.57	
26	2.31	1.44	2.84	1.60	2.46	0.29	2.73	0.17	2.43	0.49	0.99	2.37	26
	2.21	0.50	2.03	1.23	1.53	0.87	1.79	1.47	2.14		0.88	2.46	
27	2.53	1.49	2.91	1.63	2.71	0.34	3.15	0.66	1.16	2.67	0.87	2.15	27
	2.61	1.03	2.07	1.53	1.79	1.24	2.38	1.68	0.72	2.14	0.90	2.52	
28	2.89	1.50	2.99	1.83	2.97	0.72	3.41	0.79	0.87	1.96	0.84	2.02	28
	2.52	1.30	2.45	2.03	2.34	1.70	2.17		0.41	2.28	0.95	2.66	
29	2.90	1.32	3.52	2.11	3.52	0.82	1.42	3.26	0.83	1.92	0.91	2.03	29
	2.43	1.36	2.90	2.38	2.28		0.74	1.77	0.41	2.34	1.09	2.75	
30	3.03	1.50	4.04	2.26	1.56	3.21	1.00	2.78	0.88	2.09	1.00	2.15	30
	2.71		3.36	2.87	0.71	2.20	0.57	2.14	0.78	2.72	1.42	2.84	
31			4.63	2.59			1.06	2.62	0.97	2.04			31
			3.66				0.53	2.26	0.80	2.66			
MAXIMUM	5.03		4.63		4.91		3.41		3.27		3.70		MAXIMUM
MINIMUM	0.50		0.30		0.05		0.03		0.22		0.38		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 1/18/73

ZERO OF GAGE: 1972 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

R95740 SAN JOAQUIN RIVER AT BRANDT BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	NR	NR	5.71 6.14	3.37 3.56	5.57 6.75	4.01 3.73	3.44 4.49	5.50 6.87	4.62 5.46	6.44 7.54	5.67 6.48	7.29 8.12	1
2	NR	NR	5.61 6.21	3.47 3.51	5.89 7.09	4.47	3.41 4.80	5.77 7.17	4.65 5.37	6.52 7.60	6.04 6.40	7.48 8.01	2
3	6.92 6.62	4.01 4.68	5.72 6.53	3.76	3.83 4.55	5.99 7.04	3.86 5.00	6.18 7.28	4.69 5.45	6.77 7.85	5.78 6.07	7.35 8.04	3
4	6.96 6.80	4.26 4.57	3.72 4.15	5.98 6.76	3.93 5.10	6.41 7.63	3.73 4.94	6.01 7.26	4.87 5.34	6.99 7.90	5.89 6.19	7.66 8.05	4
5	6.67 6.55	4.12	3.79 4.20	5.88 6.63	4.15 4.92	6.19 7.28	3.64 4.64	5.88 7.01	4.93 5.22	7.09 7.29	NR	NR	5
6	4.04 4.06	6.37 6.61	3.50 4.18	5.68 6.73	3.55 4.92	6.23 7.42	3.57 4.57	5.89 6.90	4.65 5.17	7.22 7.26	NR	NR	6
7	3.95 4.18	6.36 7.05	3.56 4.52	5.80 7.14	4.01 5.20	6.35 7.61	3.58 4.47	6.02 6.63	5.20 5.61	7.79 7.05	NR	NR	7
8	4.26 4.43	6.43 7.06	3.73 4.47	5.79 6.57	4.10 5.18	6.39 7.23	3.45 3.99	5.93 6.12	5.29 5.41	7.64 6.68	NR	NR	8
9	4.07 4.44	6.20 7.10	3.13 4.38	5.47 6.50	3.78 4.78	6.01 6.73	3.47 4.88	6.34 6.84	5.28 5.12	7.76	NR	NR	9
10	4.01 4.56	6.12 7.09	3.18 4.64	5.65 6.47	3.44 4.65	5.88 6.40	4.25 4.64	6.83 5.91	6.61 8.35	5.79 5.50	NR	NR	10
11	3.98 4.71	6.06 7.02	3.49 5.23	6.34 6.73	3.34 4.62	6.05 6.22	3.92 4.46	6.73 5.75	6.82 8.87	6.25 6.23	NR	NR	11
12	3.87 4.82	5.91 7.00	3.33 4.59	5.78 5.99	3.32 4.30	6.07 5.65	4.49 4.66	7.40	7.37 8.74	6.83 6.66	NR	NR	12
13	3.70 4.89	5.81 6.99	2.96 4.54	5.63 5.88	3.14 3.92	6.12 5.27	5.74 7.64	4.79 4.76	8.17 9.41	7.79	NR	NR	13
14	3.73 4.96	5.92 6.69	3.44 4.63	6.50	3.19 3.32	6.04	6.04 7.86	5.42 4.83	7.57 8.04	8.64 9.74	NR	NR	14
15	3.73 5.19	6.18 6.70	6.05 6.31	3.49 4.23	4.78 6.23	3.20 3.29	6.56 8.46	5.70	7.74 7.95	8.75 9.50	NR	NR	15
16	3.59 4.68	6.10	6.36 6.90	4.02 4.43	5.04 6.60	3.60 3.28	5.00 6.06	6.81 9.53	7.65 7.95	8.78 9.42	NR	NR	16
17	6.31 6.14	3.46 4.35	6.29 7.30	4.32 4.42	5.28 7.16	3.97	6.26 6.56	7.77 9.04	7.87 8.09	8.99 9.40	NR	NR	17
18	6.35 6.38	3.66 4.24	6.39 7.36	4.47	3.60 4.37	5.70 7.27	5.94 7.42	7.78 10.14	7.99 7.98	9.08 9.13	NR	NR	18
19	6.50 6.68	3.97 4.23	4.29 4.58	6.30 7.56	3.67 4.62	5.98 7.59	7.31 7.25	8.59 9.30	7.67 7.61	8.91 8.64	NR	NR	19
20	6.52 6.82	4.13	4.10 4.58	6.19 7.54	3.84 4.69	6.07 7.57	6.62 6.76	8.03 8.64	7.28 7.19	8.64 8.19	NR	NR	20
21	4.07 4.01	6.32 6.77	3.92 4.70	6.16 7.57	3.83 4.72	6.13 7.58	6.33 6.63	8.08 8.17	6.93 6.85	8.48 7.80	NR	NR	21
22	3.73 4.07	6.07 6.97	3.85 4.84	6.21 7.64	4.03 5.09	6.63 7.65	5.97 6.01	7.85 7.28	6.76 6.57	8.35 7.40	NR	NR	22
23	3.82 4.28	6.11 7.21	3.91 4.81	6.25 7.48	4.10 4.71	6.47 7.13	5.33 5.51	7.41 6.65	6.63 6.32	8.12	NR	NR	23
24	3.93 4.64	6.18 7.49	3.86 4.76	6.25 7.12	3.92 4.55	6.50 6.51	5.05 5.38	7.42 6.33	7.23 8.33	6.84 6.50	6.02 5.46	7.38	24
25	4.01 4.69	6.21 7.48	3.65 4.42	6.08 6.50	3.54 4.06	6.15 5.90	5.09 5.26	7.50 6.03	7.19 7.96	6.77 5.93	6.71 7.45	6.31 5.63	25
26	4.04 5.02	6.35 7.66	3.36 4.29	6.02 6.20	3.31 3.92	6.18 5.62	5.08 4.82	7.29	6.92 7.63	6.58 5.64	6.79 7.34	6.45 5.51	26
27	4.23 5.10	6.49 7.30	3.39 4.25	6.26 5.99	3.57 4.15	6.57	5.53 6.94	4.96 4.39	6.88 7.84	6.38 5.67	6.81 7.16	6.43 5.44	27
28	4.01 4.94	6.34 7.01	3.54 4.08	6.48	5.84 7.24	4.24 4.12	5.45 7.03	5.06 4.34	7.21 8.01	6.59	6.81 7.03	6.25 5.22	28
29	3.85 4.54	6.26 6.08	5.74 6.33	3.60 3.67	5.35 6.84	4.18 3.62	6.16 7.75	5.67			6.46 6.56	5.66 4.96	29
30	3.14 3.79	5.77	5.49 6.53	3.73 3.63	5.34 6.66	4.26 3.38	4.67 5.90	6.64 7.80			6.38 6.55	5.43 4.93	30
31	5.79 5.99	3.26 3.68			5.44 6.95	4.42	4.67 5.76	6.60 7.66			6.57 6.85	5.34	31
MAXIMUM	NR		7.64		7.65		10.14		9.74		NR		MAXIMUM
MINIMUM	NR		2.96		3.14		3.41		4.62		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 51 53, LONG. 121 19 18, NW SEC 9, T15, R6E,
ON BOWMAN RD. BETWEEN ROBERTS ISLAND AND R.D. 17.PERIOD OF RECORD: JULY 1940 TO SEPT 1966
JAN 1968 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

895740 SAN JOAQUIN RIVER AT BRANDT BRIDGE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.15 5.18	6.83 6.60	6.74 5.93	3.39 4.01	8.29 6.65	4.42	NR	NR	NR	NR	3.53 3.46	5.73 6.50	1
2	4.95 4.89	6.59 6.33	6.88 5.78	3.35	5.31 4.27	8.13 6.55	NR	NR	3.86 3.19	6.22 6.30	3.48 3.66	5.55 6.48	2
3	4.80 4.69	6.62 6.11	4.03 3.31	6.92 5.88	5.11 4.12	7.82 6.54	3.85 2.84	6.39 5.67	3.68 3.26	5.88 6.40	3.27 3.96	5.35 6.56	3
4	4.74 4.70	6.81 6.25	4.35 3.64	7.31 6.13	4.87 3.89	7.47 6.48	3.66 2.61	6.02 5.71	3.54 3.44	5.58 6.59	3.40 5.04	5.76 7.28	4
5	4.97 4.72	7.21 6.42	4.59 3.46	7.33 5.93	4.86 3.66	7.13 6.33	3.58 2.86	5.74 6.01	3.61 3.95	5.58	3.64 4.78	5.78	5
6	5.32 4.88	7.63 6.41	4.34 3.02	6.96 5.64	4.41 3.30	6.43	3.47 3.05	5.47	6.91 5.59	3.52 4.67	6.65 5.39	3.01 4.31	6
7	5.32 4.65	7.58 6.10	4.27 3.16	6.84 5.88	6.25 5.91	4.07 3.19	6.12 4.97	3.19 3.04	7.14 5.60	3.44 4.76	6.38 5.41	2.93 4.16	7
8	5.11 4.15	7.12	5.82 6.38	4.19 2.87	6.34 5.57	3.87 3.35	6.14 4.82	2.94 3.43	7.06 5.77	3.37 4.82	6.26 5.44	2.88 3.92	8
9	5.99 6.96	5.13 4.05	5.73 5.89	3.90 2.70	6.57 5.59	3.77 3.85	6.34 4.89	2.81 3.90	6.97 5.68	3.24 4.62	6.20 5.73	2.88 4.16	9
10	6.06 6.74	5.03 3.99	5.64 5.45	3.39 2.55	6.86 5.75	3.75 4.27	6.59 5.34	3.04 4.37	6.79 5.56	2.98 4.36	6.70 6.19	3.60 4.16	10
11	6.21 6.54	4.80 3.90	5.82 5.42	3.28 2.96	7.11 5.96	3.76 4.66	6.80 5.54	3.04 4.64	6.72 5.73	3.01 4.38	6.50 5.95	3.38	11
12	6.34 6.48	4.56 4.00	6.18 5.66	3.47 2.46	7.19 6.04	3.74 4.76	6.90 5.72	3.11 4.81	6.81 5.80	3.20 4.26	3.77 3.34	6.26 6.07	12
13	6.48 6.52	4.27 3.93	6.48 5.86	3.55 3.75	7.22 5.91	3.60 4.77	7.11 6.16	3.50 5.23	6.59 5.63	3.10	3.70 3.52	6.16 6.33	13
14	6.42 6.04	3.96 3.86	6.68 5.94	3.48 3.92	7.19 5.67	3.37 4.46	7.43 6.32	3.65 5.11	3.89 3.01	6.43 5.74	3.65 3.50	5.98 6.31	14
15	6.47 6.10	3.86	6.71 5.66	3.22 3.92	6.78 5.60	2.94 4.70	7.25 6.06	3.50	3.83 3.14	6.35 5.91	3.43 3.60	5.78 6.51	15
16	4.01 3.77	6.60 6.01	6.62 5.53	3.00	6.95 5.76	3.15	4.83 3.45	7.00 6.02	3.72 3.19	6.14 5.97	3.41 3.83	5.70 6.68	16
17	4.12 3.88	6.73 6.42	4.04 3.11	6.76 5.61	4.63 3.03	6.90 5.58	4.64 3.34	6.78 6.04	3.55 3.11	5.89 6.17	3.31 3.93	5.55 6.74	17
18	4.58 3.62	6.76 5.92	4.15 3.40	6.86 6.19	4.35 2.78	6.37 5.38	4.46 3.32	6.56 6.02	3.53 3.23	5.74 6.23	3.28 4.25	5.54 6.88	18
19	4.53 3.55	6.80 5.65	5.12 3.88	7.43 6.27	NR	NR	4.27 3.20	6.28 7.07	3.40 3.30	5.43 6.39	3.24 4.54	5.57 6.84	19
20	4.25 3.17	6.50 5.34	5.01 3.59	7.09 5.99	NR	NR	4.99 4.10	6.95 7.15	3.08 3.59	5.11 6.61	3.09 4.41	5.66	20
21	4.22 2.92	6.36 5.35	4.77 3.61	6.88 6.19	NR	NR	4.64 3.86	6.36 7.12	3.05 4.04	5.10 6.76	6.72 5.59	3.08 4.09	21
22	4.33 2.89	6.27 5.49	5.06 3.58	6.68 6.08	NR	NR	4.37 4.14	6.12 7.43	2.84 4.16	5.18	6.54 5.79	3.09 3.90	22
23	4.63 3.03	6.40	4.91 3.63	6.20	NR	NR	4.10 4.56	5.96	6.77 5.47	2.99 4.38	6.45 5.90	3.23 3.78	23
24	5.62 6.16	4.87 2.87	6.28 5.84	4.67 3.21	NR	NR	7.58 5.84	3.88 4.74	6.87 5.41	2.82 4.11	6.39 6.24	3.32	24
25	5.59 5.81	4.65 2.79	6.08 5.69	4.20 3.29	NR	NR	7.65 5.98	3.64 5.02	6.85 5.60	2.92 3.85	3.80 3.40	6.29 6.06	25
26	5.68 5.60	4.33 2.86	6.33 5.39	3.90 3.32	NR	NR	NR	NR	6.73 5.97	3.12 4.08	3.38 3.22	5.95 6.02	26
27	5.93 5.92	4.20 3.27	6.44 5.32	3.68 3.42	NR	NR	NR	NR	6.74 5.98	3.32	3.18 3.33	5.79 6.17	27
28	6.24 5.92	3.88 3.57	6.44 5.31	3.43 3.81	NR	NR	NR	NR	3.66 2.97	6.35 5.91	3.17 3.51	5.73 6.36	28
29	6.43 5.80	3.60 3.61	6.88 5.86	3.65 4.42	NR	NR	NR	NR	3.50 3.07	6.18 6.21	3.25 3.75	5.76 6.52	29
30	6.71 6.00	3.68 3.86	7.48 6.48	4.04 5.20	NR	NR	NR	NR	3.68 3.61	6.31 6.57	3.40 4.22	5.90 6.72	30
31			8.11 6.70	4.34 5.54			NR	NR	3.70 3.62	6.03 6.56			31
MAXIMUM	7.63		8.11		NR		NR		NR		7.28		MAXIMUM
MINIMUM	2.79		2.55		NR		NR		NR		2.88		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 19.5 - 12/10/50
MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --ZERO OF GAGE: 1940 TO 1952 -3.61 USCGS
1952 -3.79 USCGS
1964 -3.34 USCGS
1964 TO DATE -3.00 USCGS

TABLE H-12 (CONTINUED)

DAILY TIDES

 H95660 STOCKTON SHIP CHANNEL AT BURNS CUTOFF
 (OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.84 4.19	6.26	5.45 5.96	2.49 2.64	5.22 6.59	3.32 2.68	5.22 6.73	3.98 2.35	2.99 4.42	5.96 7.12	6.52 7.38	4.89 3.60	1
2	6.86 6.08	2.82 3.84	5.34 6.03	2.61 2.55	5.60 6.97	3.84 2.77	5.51 7.06	4.26	2.96 4.28	6.04 7.18	6.51 7.24	4.47	2
3	6.72 6.38	2.98 3.79	5.48 6.40	2.99 2.72	5.72 6.98	3.94 3.00	2.88 4.42	5.92 7.14	3.10 4.39	6.35 7.45	3.51 4.20	6.54 7.40	3
4	6.72 6.46	3.19 3.51	5.75 6.64	3.43	6.20 7.51	4.54	2.68 4.34	5.74 7.08	3.39 4.25	6.56 7.50	3.77 4.30	6.94 7.41	4
5	6.35 6.26	2.99 2.97	2.76 3.48	5.62 6.46	3.09 4.34	5.89 7.14	2.52 4.06	5.61 6.84	3.49 4.07	6.66 6.90	3.84 4.13	7.08 7.12	5
6	6.08 6.37	3.08	2.39 3.55	5.42 6.61	2.41 4.39	6.05 7.32	2.48 3.96	5.60 6.74	3.28 4.09	6.84 6.90	3.90 4.12	7.19 7.19	6
7	2.90 3.35	6.11 6.89	2.49 3.93	5.57 7.04	2.95 4.67	6.09 7.50	2.51 3.83	5.77 6.46	3.98 4.23	7.41 6.58	4.14 3.89	7.44 6.75	7
8	3.26 3.64	6.18 6.85	2.63 3.93	5.53 6.48	3.03 4.60	6.10 7.03	2.42 3.31	5.71 5.92	3.82 3.89	7.20 6.11	4.18 3.98	7.63 6.62	8
9	3.00 3.72	5.93 6.90	2.21 3.91	5.29 6.43	2.66 4.21	5.72 6.51	2.59 4.31	6.26 6.63	3.93 3.64	7.34 6.07	4.51 3.71	7.71 6.13	9
10	2.92 3.92	5.86 6.90	2.27 4.25	5.54 6.43	2.32 4.08	5.61 6.16	3.20 3.76	6.64 5.60	4.86 4.08	7.98	4.40 3.57	7.41 6.34	10
11	2.87 4.12	5.77 6.80	2.64 4.79	6.25 6.55	2.28 4.02	5.83 5.95	2.89 3.46	6.55 5.38	6.32 8.49	5.35 4.54	4.91 3.47	7.59	11
12	2.80 4.33	5.63 6.82	2.40 4.14	5.61 5.80	2.29 3.62	5.86 5.32	3.41 3.43	7.15	6.66 8.17	5.50 4.07	6.16 7.34	5.07 3.19	12
13	2.66 4.45	5.54 6.81	2.10 4.16	5.55 5.76	2.15 3.16	5.94 4.96	5.29 7.42	3.86 3.35	6.94 8.29	5.65 4.15	6.19 7.31	5.01 2.99	13
14	2.73 4.46	5.66 6.49	2.71 4.03	6.40 5.85	2.34 2.39	5.87	5.49 7.56	4.37 3.23	6.91 8.58	5.31	5.90 6.71	4.26 2.57	14
15	2.78 4.78	5.98 6.50	2.67 3.60	6.27	4.45 6.10	2.45 2.31	6.13 8.26	4.96 3.77	4.33 5.11	7.02 8.19	5.91 6.64	3.74 2.67	15
16	2.61 4.14	5.86	6.09 6.77	3.22 3.56	4.69 6.51	2.95 2.23	6.52 9.44	5.54	3.99 4.70	6.99 7.86	6.03 6.70	3.50 2.93	16
17	6.07 5.93	2.49 3.69	5.97 7.17	3.49 3.43	4.97 7.18	3.39 2.57	4.85 5.63	7.40 8.86	3.88 4.45	7.00 7.59	6.48 6.74	3.64	17
18	6.12 6.17	2.72 3.44	6.07 7.25	3.64 3.23	5.44 7.27	3.78	4.37 6.45	7.43 9.74	3.76 4.22	7.00 7.29	3.23 3.24	6.54 6.42	18
19	6.27 6.51	3.05 3.37	6.02 7.47	3.80	2.60 4.04	5.73 7.56	5.45 5.83	8.00 8.84	3.78 4.06	7.12 6.85	3.10 2.99	6.49 6.37	19
20	6.32 6.67	3.28 3.15	2.96 3.87	5.93 7.42	2.73 4.03	5.76 7.50	4.71 5.16	7.38 8.10	3.74 3.97	7.11 6.57	3.58 3.62	7.12 6.52	20
21	6.10 6.63	3.18	2.72 4.03	5.86 7.46	2.62 4.06	5.84 7.47	4.25 4.98	7.46 7.60	3.90 3.94	7.22 6.34	3.61 3.02	6.81 6.30	21
22	2.70 3.22	5.81 6.82	2.64 4.17	5.91 7.54	2.82 4.39	6.38 7.50	4.06 4.54	7.31 6.70	4.20 3.79	7.24 5.86	3.83 3.00	6.75 5.69	22
23	2.56 3.37	5.75 6.98	2.69 4.16	5.99 7.38	2.91 3.97	6.19 6.95	3.62 4.06	6.89 6.03	4.23 3.58	7.03 5.82	3.80 2.74	6.55 5.47	23
24	2.53 3.81	5.79 7.25	2.69 4.09	5.99 6.93	2.80 3.75	6.24 6.24	3.54 3.99	6.94 5.68	4.91 4.14	7.42	4.05 2.64	6.41 5.46	24
25	2.59 3.90	5.82 7.24	2.43 3.71	5.81 6.24	2.44 3.27	5.93 5.63	3.75 3.93	7.06 5.40	5.80 6.98	4.95 3.45	4.47 2.90	6.41 5.49	25
26	2.64 4.27	6.00 7.41	2.17 3.58	5.77 5.94	2.32 3.13	6.01 5.30	3.93 3.40	6.82	5.68 6.78	4.97 3.42	4.66 2.68	6.22	26
27	2.84 4.33	6.10 7.01	2.30 3.48	6.05 5.71	2.75 3.36	6.48 5.55	4.82 6.51	3.94 2.95	5.92 7.21	4.98 3.69	5.53 5.99	4.65 2.62	27
28	2.61 4.22	6.00 6.71	2.57 3.22	6.30	3.56 3.10	7.08	4.84 6.63	4.19 2.97	6.48 7.41	5.33 3.60	5.58 5.75	4.28 2.14	28
29	2.54 3.73	5.95 5.77	5.40 6.14	2.70 2.72	5.03 6.70	3.55 2.63	5.71 7.43	4.95 3.34			5.17 5.36	3.48 2.01	29
30	2.00 2.96	5.53	5.14 6.36	2.97 2.62	5.00 6.53	3.72 2.35	6.20 7.43	5.17 3.22			5.22 5.47	3.18 2.10	30
31	5.51 5.81	2.24 2.83			5.12 6.82	3.90 2.36	6.18 7.27	4.93			5.56 5.89	3.00 2.57	31
MAXIMUM	7.41		7.54		7.56		9.74		8.58		7.71		MAXIMUM
MINIMUM	2.00		2.10		2.15		2.35		2.96		2.01		MINIMUM

 LOCATION: LAT. 37 57 46, LONG. 121 21 54, SW SEC 6, T1N, R6E,
 ON NORTH END OF ROUGH AND READY ISLAND, APPROXIMATELY
 0.4 MILE ABOVE BURNS CUTOFF.

PERIOD OF RECORD: MAY 1940 TO DATE

TABLE 8-12 (CONTINUED)

DAILY TIDES

895660 STOCKTON SHIP CHANNEL AT BURNS CUTOFF
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.96 5.62	2.72 2.34	6.62 5.67	2.52 3.32	8.06 6.22	3.47 4.34	7.27 5.69	2.24	NR	NR	2.88 2.97	5.70 6.56	1
2	5.67 5.36	2.29 2.25	6.76 5.57	2.52 3.43	7.84 6.13	3.42	3.59 2.34	7.05 5.71	NR	NR	2.82 3.24	5.50 6.51	2
3	5.80 5.11	2.06	6.83 5.67	2.50	4.10 3.39	7.55 6.15	3.38 2.11	6.54 5.71	3.15 2.79	5.92 6.47	2.59 3.54	5.25 6.50	3
4	2.34 2.04	6.08 5.36	3.62 2.92	7.23 5.91	3.98 3.39	7.26 6.14	3.37 2.62	6.10 5.74	2.98 3.02	5.59 6.69	2.77 4.68	5.66 7.22	4
5	2.80 2.14	6.56 5.59	3.91 2.63	7.24 5.71	3.96 3.29	6.89 6.01	3.02 2.36	5.77 6.08	3.09 3.60	5.58 6.96	3.00 4.40	5.68 6.55	5
6	3.49 2.46	7.06 5.64	3.72 2.42	6.96 5.47	3.58 3.12	6.14 5.96	2.99 2.70	5.48 6.21	2.94 4.29	5.56 7.13	2.34 3.91	5.26	6
7	3.68 2.33	7.01 5.38	3.71 2.67	6.78 5.69	3.53 3.05	5.58	2.95 2.87	4.91	2.88 4.40	5.56	6.32 5.30	2.25 3.69	7
8	3.65 1.91	6.61 5.35	3.59 2.45	6.28	6.09 5.22	3.46 3.09	6.25 4.76	2.60 3.15	7.09 5.74	2.80 4.46	6.22 5.38	2.18 3.45	8
9	3.88 1.93	6.46	5.62 5.75	3.48 2.43	6.38 5.25	3.35 3.35	6.44 4.81	2.56 3.52	7.04 5.65	2.63 4.23	6.18 5.67	2.16 3.70	9
10	5.49 6.23	3.83 2.09	5.62 5.29	3.20 2.39	6.69 5.54	3.20 3.59	6.69 5.25	2.53 3.96	6.87 5.55	2.38 3.94	6.74 6.12	2.97 3.58	10
11	5.72 6.12	3.59 2.15	5.79 5.30	3.07 2.81	6.98 5.62	3.07 3.94	6.90 5.56	2.56 4.23	6.82 5.74	2.40 3.97	6.46 5.83	2.67 3.14	11
12	5.88 6.08	3.31 2.46	6.19 5.55	3.21 2.23	7.02 5.65	2.86 4.05	7.03 5.68	2.50 4.42	6.92 5.77	2.54 3.79	6.21 6.01	2.65	12
13	6.07 6.07	2.99 2.51	6.50 5.76	3.28 3.44	7.06 5.60	3.00 4.14	7.25 6.15	2.91 4.81	6.72 5.60	2.44 3.39	NR	NR	13
14	6.02 5.62	2.62 2.51	6.70 5.86	3.28 3.54	7.08 5.47	2.74 3.87	NR	NR	6.56 5.75	2.44	2.90 2.87	5.88 6.29	14
15	6.10 5.70	2.43 2.72	6.73 5.61	3.11 3.54	6.71 5.47	2.10 4.23	NR	NR	3.31 2.60	6.47 5.94	NR	NR	15
16	6.22 5.60	2.28 2.89	6.65 5.54	2.94 3.56	6.93 5.66	2.30 4.13	NR	NR	3.19 2.63	6.20 6.00	NR	NR	16
17	6.38 6.01	2.44	6.73 5.53	3.01 3.68	6.91 5.41	2.05	NR	NR	3.00 2.60	5.91 6.22	NR	NR	17
18	3.52 2.15	6.39 5.55	6.85 5.87	3.11 4.40	3.83 1.78	6.36 5.23	NR	NR	2.97 2.78	5.75 6.31	NR	NR	18
19	3.70 2.20	6.51 5.26	7.16 5.87	3.28	3.67 1.75	6.16 5.35	NR	NR	2.80 2.89	5.41 6.48	NR	NR	19
20	3.49 1.80	6.23 4.99	4.23 3.07	6.80 5.63	3.61 1.75	5.97 5.47	NR	NR	2.45 3.21	5.05 6.64	NR	NR	20
21	3.58 1.71	6.14 5.04	4.02 3.05	6.59 5.80	3.47 1.86	5.70 5.81	NR	NR	2.45 3.74	5.04 6.80	NR	NR	21
22	3.72 1.74	6.06 5.22	4.27 3.04	6.35 5.66	3.72 2.42	5.75 5.97	NR	NR	2.25 3.85	5.14 6.87	NR	NR	22
23	4.13 1.96	6.18 5.37	4.05 3.11	5.85 5.88	3.08 2.24	5.05 6.01	NR	NR	2.41 4.03	5.47	NR	NR	23
24	4.39 1.94	5.90	3.80 2.99	5.48	2.65 2.70	4.79	NR	NR	6.98 5.40	2.17 3.69	NR	NR	24
25	5.40 5.57	4.20 1.97	5.80 5.38	3.55 3.18	6.41 4.76	2.46 2.98	NR	NR	6.98 5.60	2.26 3.40	NR	NR	25
26	5.55 5.44	3.84 2.13	6.16 5.07	3.49 3.26	6.65 4.91	2.19 3.41	NR	NR	6.86 6.01	2.46 3.57	NR	NR	26
27	5.84 5.65	3.61 2.49	6.28 4.96	3.35 3.22	6.96 5.22	2.27 3.79	NR	NR	6.90 5.95	2.64 3.09	NR	NR	27
28	6.09 5.70	3.20 2.80	6.21 4.90	3.05 3.39	7.39 5.77	2.55 4.20	NR	NR	6.46 5.93	2.34	NR	NR	28
29	6.29 5.58	2.83 2.89	6.60 5.44	3.16 3.56	7.63 5.76	2.53 4.02	NR	NR	2.85 2.47	6.26 6.26	NR	NR	29
30	6.64 5.74	2.86 3.12	7.26 6.09	3.41 4.40	7.51 5.73	2.38 3.80	NR	NR	3.08 3.09	6.39 6.61	NR	NR	30
31			7.95 6.27	3.49 4.68			NR	NR	3.06 3.09	6.03 6.58			31
MAXIMUM	7.06		7.95		8.06		NR		NR		NR		MAXIMUM
MINIMUM	1.71		2.39		1.75		NR		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 10.3 - 12/26/55

ZERO OF GAGE: 1940 TO 1943 -4.22 USCGS
1943 TO 1945 -4.39 USCGS
1945 TO 1946 -4.70 USCGS
1946 TO 1951 -3.00 USCGS
1951 -3.02 USCGS
1964 -3.53 USCGS
1964 TO DATE -3.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

R95620 SAN JOAQUIN RIVER AT RINDGE PUMP
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	-0.21 1.11	3.06	2.27 2.78	-0.56 -0.40	2.05 3.41	0.25 -0.36	2.06 3.55	0.91 -0.69	2.79 3.94	1.34	3.34 4.20	1.78 0.47	1
2	3.68 2.90	-0.24 0.78	2.17 2.85	-0.43 -0.49	2.43 3.79	0.77 -0.27	2.33 3.87	1.19 -0.17	-0.13 1.21	2.86 3.99	3.32 4.04	1.37 0.33	2
3	3.54 3.19	-0.07 0.78	2.31 3.20	-0.05 -0.32	2.56 3.82	0.91 -0.03	2.75 3.95	1.34	0.01 1.32	3.15 4.27	3.36 4.19	1.11	3
4	3.55 3.27	0.14 0.46	2.59 3.45	0.39 -0.27	3.04 4.32	1.46	-0.38 1.27	2.57 3.89	0.32 1.23	3.42 4.31	0.68 1.20	3.76 4.20	4
5	3.17 3.06	-0.06 -0.07	2.45 3.27	0.43	0.03 1.26	2.73 3.96	-0.51 0.98	2.44 3.66	0.42 1.01	3.49 3.73	0.74 1.03	3.89 3.96	5
6	2.89 3.18	0.03	-0.65 0.49	2.25 3.42	-0.55 1.39	2.93 4.14	-0.57 0.87	2.44 3.55	0.19 1.03	3.66 3.73	0.78 1.04	4.04 3.99	6
7	-0.14 0.29	2.92 3.69	-0.55 0.88	2.40 3.86	-0.09 1.60	2.93 4.33	-0.53 0.78	2.60 3.28	0.91 1.12	4.22 3.40	1.06 0.82	4.25 3.57	7
8	0.14 0.59	3.00 3.67	-0.41 0.85	2.35 3.31	-0.02 1.52	2.93 3.83	-0.61 0.32	2.54 2.83	0.74 0.29	4.01 2.95	1.10 0.85	4.43 3.45	8
9	-0.03 0.68	2.75 3.72	-0.83 0.86	2.13 3.26	-0.39 1.13	2.55 3.35	-0.40 1.30	3.14 3.46	0.85 0.58	4.15 2.95	1.42 0.63	4.51 2.96	9
10	-0.12 0.84	2.69 3.71	-0.76 1.22	2.41 3.31	-0.73 1.00	2.44 2.99	0.13 0.69	3.47 2.45	1.78 1.01	4.79	1.31 0.48	4.22 3.14	10
11	-0.17 1.04	2.61 3.62	-0.40 1.72	3.07 3.39	-0.77 0.95	2.67 2.80	-0.15 0.42	3.42 2.25	3.17 5.30	2.24 1.44	1.82 0.34	4.39	11
12	-0.25 1.26	2.47 3.64	-0.64 1.05	2.44 2.67	-0.76 0.56	2.68 2.17	0.34 0.36	3.96 2.13	3.50 5.02	2.39 0.97	2.98 4.14	1.96 0.06	12
13	-0.40 1.39	2.38 3.63	-0.91 1.11	2.43 2.68	-0.91 0.11	2.76 1.82	0.78 0.27	4.23	3.76 5.08	2.52 1.04	3.02 4.09	1.90 -0.13	13
14	-0.33 1.43	2.51 3.34	-0.36 0.99	3.24 2.72	-0.71 -0.66	2.70	2.33 4.37	1.29 0.16	3.72 5.33	2.20 1.20	2.72 3.52	0.78 -0.53	14
15	-0.27 1.70	2.85 3.33	-0.36 0.61	3.10	1.29 2.92	-0.61 -0.74	2.95 5.07	1.86 0.76	3.79 4.96	1.96	2.72 3.45	0.68 -0.42	15
16	-0.46 1.06	2.70 2.90	2.93 3.59	0.19 0.50	1.52 3.33	-0.11 -0.82	3.44 6.22	2.53 1.77	0.74 1.57	3.78 4.64	2.82 3.51	0.42 -0.15	16
17	-0.56 0.63	2.75	2.81 3.98	0.44 0.39	1.82 4.00	0.36 -0.48	4.25 5.68	2.56	0.77 1.33	3.79 4.37	3.27 3.56	0.55 0.15	17
18	2.96 2.97	-0.32 0.39	2.91 4.06	0.61 0.19	2.27 4.10	0.71 -0.43	1.37 3.39	4.36 6.54	0.65 1.11	3.79 4.09	3.36 3.22	0.15	18
19	3.10 3.29	0.01 0.33	2.81 4.27	0.77	2.56 4.36	0.98	2.31 2.74	4.82 5.64	0.68 0.96	3.91 3.67	0.03 -0.08	3.31 3.19	19
20	3.14 3.47	0.22 0.11	-0.08 0.81	2.73 4.22	-0.31 0.96	2.59 4.31	1.63 2.08	4.20 4.90	0.65 0.88	3.91 3.39	0.53 0.55	3.93 3.35	20
21	2.92 3.45	0.08 -0.34	-0.30 0.96	2.69 4.26	-0.41 1.00	2.67 4.26	1.18 1.89	4.26 4.40	0.80 0.85	4.02 3.17	0.56 -0.06	3.62 3.10	21
22	2.64 3.60	0.17	-0.39 1.10	2.73 4.34	-0.19 1.32	3.20 4.31	0.99 1.47	4.12 3.52	1.09 0.68	4.06 2.70	0.77 -0.14	3.56 2.51	22
23	-0.47 0.31	2.56 3.80	-0.34 1.09	2.81 4.19	-0.13 0.92	3.01 3.76	0.55 0.98	3.71 2.86	1.13 0.48	3.84 2.66	0.72 -0.37	3.37 2.30	23
24	-0.51 0.74	2.60 4.05	-0.34 1.02	2.81 3.75	-0.25 0.68	3.05 3.08	0.45 0.91	3.75 2.52	1.84 1.05	4.29 2.66	0.98 -0.45	3.24 2.28	24
25	-0.43 0.82	2.64 4.05	-0.60 0.64	2.63 3.06	-0.62 0.22	2.76 2.47	0.68 0.85	3.87 2.20	1.85 0.30	3.82	1.37 -0.26	3.24 2.34	25
26	-0.38 1.19	2.82 4.23	-0.87 0.52	2.60 2.78	-0.73 0.07	2.82 2.15	0.84 0.31	3.64	2.52 3.67	1.88 0.29	1.56 -0.41	3.07	26
27	-0.20 1.24	2.91 3.83	-0.74 0.42	2.87 2.54	-0.31 0.30	3.31 2.34	1.69 3.32	0.84 -0.15	2.75 4.05	1.88 0.59	2.39 2.83	1.55 -0.45	27
28	-0.43 1.12	2.81 3.53	-0.47 0.16	3.12	0.49 -0.14	3.85	1.70 3.46	1.10 -0.12	3.30 4.24	2.21 0.48	2.42 2.55	1.19 -0.95	28
29	-0.53 0.61	2.73 2.59	2.23 2.96	-0.35 -0.32	1.88 3.51	0.47 -0.43	2.56 4.28	1.89 0.27			2.00 2.19	0.39 -1.05	29
30	-1.07 -0.12	2.25	1.98 3.18	-0.08 -0.42	1.85 3.35	0.64 -0.69	3.04 4.25	2.07 0.13			2.06 2.31	0.10 -0.95	30
31	2.35 2.62	-0.80 -0.21			1.95 3.60	0.81 -0.69	3.01 4.09	1.83 -0.10			2.37 2.68	-0.07 -0.51	31
MAXIMUM	4.23		4.34		4.36		6.54		5.33		4.51		MAXIMUM
MINIMUM	-1.07		-0.91		-0.91		-0.69		-0.13		-1.05		MINIMUM

LOCATION: LAT. 37 59 51, LONG. 121 25 06, NW SEC 27, T2N, R5E,
ON RINDGE TRACT AT FOURTEENMILE SLOUGH NEAR JUNCTION
WITH STOCKTON SHIP CHANNEL, 8 MILES NW OF STOCKTON.

PERIOD OF RECORD: JULY 1939 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

R95620 SAN JOAQUIN RIVER AT RINDGE PUMP
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.74	-0.35	3.43	-0.73	4.86	-0.23	4.08	-0.80	0.26	3.41	-0.17	2.51	1
	2.40	-0.74	2.45	0.14	3.03	1.26	2.50		-0.33	3.10	-0.09	3.35	
2	2.47	-0.77	3.58	-0.81	4.63	-0.45	0.53	3.84	0.28	3.09	-0.22	2.29	2
	2.11	-0.80	2.34	0.21	2.95		-0.72	2.51	-0.41	3.19	0.16	3.33	
3	2.61	-1.03	3.65	-0.90	1.02	4.37	0.30	3.35	0.00	2.74	-0.46	2.06	3
	1.93	-0.72	2.49	0.57	-0.54	2.96	-0.94	2.50	-0.27	3.28	0.43	3.32	
4	2.93	-1.02	4.05	-0.54	0.91	4.07	0.11	2.90	-0.14	2.40	-0.30	2.47	4
	2.19		2.73		-0.61	2.93	-1.12	2.55	-0.04	3.51	1.59	4.02	
5	-0.24	3.36	0.83	4.07	0.88	3.70	-0.02	2.57	0.02	2.36	-0.07	2.49	5
	-0.92	2.40	-0.84	2.54	-0.82	2.83	-0.74	2.90	0.51	3.77	1.30	3.37	
6	0.42	3.86	0.66	3.78	0.42	2.95	-0.08	2.25	-0.12	2.36	-0.72	2.08	6
	-0.60	2.45	-1.11	2.30	-1.08	2.79	-0.51	3.03	1.17	3.95	0.81		
7	0.62	3.82	0.64	3.58	0.03	2.40	-0.39	1.73	-0.18	2.35	3.13	-0.82	7
	-0.74	2.20	-0.86	2.53	-1.10		-0.43		1.30		2.11	0.59	
8	0.59	3.42	0.53	3.09	2.90	-0.20	3.07	-0.63	3.92	-0.27	3.02	-0.88	8
	-1.15	2.17	-1.21		2.04	-0.80	1.57	-0.03	2.54	1.38	2.16	0.36	
9	0.81	3.27	2.45	0.26	3.18	-0.33	3.26	-0.81	3.86	-0.43	2.99	-0.91	9
	-1.15		2.57	-1.26	2.06	-0.06	1.63	0.42	2.44	1.15	2.46	0.62	
10	2.31	0.75	2.45	-0.75	3.51	-0.34	3.50	-0.58	3.68	-0.68	3.54	-0.10	10
	3.05	-0.97	2.12	-1.36	2.25	0.47	2.07	0.86	2.33	0.86	2.91	0.51	
11	2.53	0.55	2.61	-0.49	3.80	-0.42	3.72	-0.60	3.64	-0.65	3.26	-0.39	11
	2.93	-0.98	2.09	-0.85	2.44	0.86	2.34	1.18	2.53	0.90	2.66	0.08	
12	2.69	0.26	3.02	-0.32	3.83	-0.49	3.84	-0.56	3.73	-0.52	3.01	-0.41	12
	2.87	-0.59	2.33	-0.27	2.49	0.97	2.49	1.34	2.58	0.71	2.81		
13	2.89	-0.06	3.32	-0.28	3.86	-0.66	4.07	-0.15	3.52	-0.61	-0.05	2.92	13
	2.85	-0.53	2.57	0.02	2.44	1.07	2.96	1.77	2.39	0.33	-0.20	3.10	
14	2.84	-0.44	3.51	-0.39	3.90	-0.79	4.38	-0.03	3.37	-0.62	-0.15	2.68	14
	2.43	-0.54	2.67	0.33	2.25	0.80	3.13	1.58	2.54	0.26	-0.21	3.10	
15	2.91	-0.62	3.55	-0.68	3.53	-1.09	4.21	-0.22	3.27	-0.46	-0.40	2.48	15
	2.50	-0.32	2.41	0.33	2.29	1.19	2.85	1.29	2.74		-0.04	3.30	
16	3.04	-0.76	3.46	-0.92	3.75	-0.83	3.96	-0.31	0.14	3.07	-0.38	2.36	16
	2.40	-0.14	2.30	0.44	2.46	1.09	2.82		-0.43	2.81	0.19	3.49	
17	3.19	-0.61	3.55	-0.93	3.73	-1.02	1.09	3.73	-0.04	2.72	-0.54	2.17	17
	2.83		2.32	0.62	2.23		-0.38	2.86	-0.45	3.02	0.30	3.52	
18	0.46	3.22	3.67	-0.80	0.74	3.17	0.92	3.48	-0.08	2.55	-0.59	2.16	18
	-0.94	2.37	2.69	1.32	-1.29	2.05	-0.36	2.85	-0.28	3.11	0.64	3.66	
19	0.62	3.33	3.98	-0.48	0.56	2.99	0.73	3.15	-0.26	2.21	-0.62	2.21	19
	-0.90	2.08	2.69		-1.31	2.19	-0.40	2.90	-0.16	3.28	0.97	3.60	
20	0.39	3.05	1.15	3.61	0.53	2.80	0.43	2.79	-0.60	1.87	-0.80	2.30	20
	-1.25	1.82	-0.93	2.43	-1.33	2.29	-0.51	2.99	0.12	3.45	0.79	3.47	
21	0.49	2.98	0.95	3.42	0.41	2.57	0.04	2.11	-0.61	1.86	-0.86	2.22	21
	-1.36	1.87	-0.87	2.62	-1.20	2.63	-0.69	3.00	0.64	3.61	0.45		
22	0.65	2.90	1.19	3.20	0.65	2.58	-0.21	1.83	-0.81	1.95	3.28	-0.77	22
	-1.33	2.07	-0.91	2.47	-0.67	2.80	-0.36	3.30	0.77	3.69	2.50	0.28	
23	1.07	3.00	0.95	2.70	0.03	1.87	-0.54	1.66	-0.66	2.25	3.20	-0.63	23
	-1.14	2.22	-0.86	2.71	-0.90	2.84	0.07	3.44	0.96		2.66	0.08	
24	1.32	2.74	0.74	2.30	-0.41	1.62	-0.79	1.54	3.79	-0.87	3.12	-0.53	24
	-1.17		-1.11		-0.39		0.25		2.20	0.61	2.94	0.00	
25	2.25	1.11	2.63	0.40	3.23	-0.60	3.55	-1.02	3.79	-0.79	2.97	-0.52	25
	2.42	-1.12	2.21	-0.73	1.57	-0.11	1.72	0.56	2.37	0.33	2.72	-0.57	
26	2.39	0.77	2.98	0.01	3.46	-0.85	3.87	-0.89	3.67	-0.61	2.63	-0.64	26
	2.25	1.00	1.90	-0.64	1.76	0.34	2.14	1.16	2.80	0.51	2.70		
27	2.67	0.54	3.11	-0.39	3.78	-0.81	4.51	-0.28	3.71	-0.42	-0.74	2.45	27
	2.49	-0.65	1.78	-0.63	2.02	0.73	2.80	1.26	2.77	0.05	-0.46	2.89	
28	2.92	0.07	3.03	-0.93	4.19	-0.49	4.55	-0.20	3.26	-0.70	-0.72	2.41	28
	2.53	-0.34	1.74	-0.32	2.58	1.15	2.87	0.91	2.72		-0.20	3.11	
29	3.11	-0.31	3.41	-0.87	4.44	-0.52	4.37	-0.32	-0.18	3.07	-0.64	2.44	29
	2.37	-0.27	2.21	0.35	2.57	0.96	2.79	0.55	-0.57	3.06	0.12	3.28	
30	3.44	-0.34	4.07	-0.36	4.32	-0.65	4.05	-0.41	0.05	3.19	-0.48	2.58	30
	2.54	-0.07	2.93	1.29	2.55	0.73	2.83		0.04	3.41	0.65	3.51	
31			4.76	-0.16			0.41	3.72	0.01	2.82			31
			3.08	1.55			-0.46	2.93	0.04	3.39			
MAXIMUM	3.86		4.76		4.86		4.55		3.95		4.02		MAXIMUM
MINIMUM	-1.36		-1.36		-1.33		-1.12		-0.87		-0.91		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 12/26/55

ZERO OF GAGE: 1939 TO 1940 -2.20 USED
1940 0.00 USCGS
1964 -0.52 USCGS
1964 TO DATE 0.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

B95580 SAN JOAQUIN RIVER AT VENICE ISLAND
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.88 4.16	5.88	5.11 5.60	2.52 2.66	4.90 6.25	3.28 2.71	4.92 6.39	3.98 2.39	5.62 6.78	4.35 2.93	6.17 7.02	4.80 3.51	1
2	6.54 5.76	2.85 3.83	5.00 5.67	2.63 2.58	5.28 6.62	3.81 2.80	5.18 6.73	4.24 2.89	5.69 6.83	4.23	6.14 6.86	4.36 3.29	2
3	6.40 6.01	3.00 3.86	5.16 6.04	3.02 2.76	5.41 6.71	3.95 3.07	5.61 6.79	4.37	3.07 4.35	6.01 7.08	6.20 7.00	4.17 3.73	3
4	6.41 6.10	3.21 3.53	5.45 6.29	3.46 2.80	5.90 7.16	4.50	2.69 4.26	5.39 6.72	3.40 4.34	6.28 7.13	6.57 7.02	4.24	4
5	6.02 5.88	3.02 3.02	5.30 6.11	3.46	3.09 4.30	5.58 6.82	2.57 4.02	5.30 6.48	3.48 4.07	6.33 6.55	3.79 4.08	6.70 6.78	5
6	5.73 6.01	3.09 2.94	2.42 3.54	5.10 6.25	2.67 4.52	5.85 6.98	2.50 3.89	5.28 6.38	3.29 4.12	6.51 6.64	3.84 4.09	6.92 6.79	6
7	5.76 6.50	3.36	2.53 3.98	5.27 6.70	2.99 4.66	5.81 7.17	2.55 3.82	5.43 6.13	3.94 4.16	7.03 6.28	4.10 3.88	7.06 6.40	7
8	3.28 3.66	5.87 6.48	2.66 3.87	5.19 6.16	3.05 4.51	5.79 6.68	2.44 3.50	5.38 5.78	3.77 3.83	6.83 5.81	4.16 3.84	7.22 6.29	8
9	3.05 3.73	5.61 6.58	2.24 3.92	4.99 6.12	2.64 4.16	5.39 6.20	2.74 4.39	6.09 6.31	3.90 3.66	6.96 5.81	4.46 3.67	7.33 5.82	9
10	2.97 3.90	5.56 6.55	2.31 4.31	5.30 6.19	2.33 4.01	5.28 5.86	3.18 3.73	6.28 5.32	4.79 4.04	7.62 6.04	4.34 3.50	7.03 5.96	10
11	2.92 4.08	5.47 6.48	2.68 4.72	5.91 6.25	2.30 3.97	5.52 5.67	2.90 3.49	6.33 5.13	5.24 4.47	8.12	4.84 3.36	7.21	11
12	2.80 4.32	5.33 6.48	2.42 4.09	5.31 5.56	2.30 3.58	5.52 5.01	3.39 3.39	6.78 5.00	6.37 7.90	5.39 4.04	5.78 6.94	4.95 3.10	12
13	2.67 4.47	5.25 6.49	2.17 4.21	5.39 5.67	2.15 3.20	5.60 4.69	3.80 3.32	7.04	6.61 7.89	5.51 3.86	5.86 6.82	4.91 2.87	13
14	2.72 4.52	5.40 6.23	2.70 4.10	6.11 5.61	2.35 2.39	5.54	5.19 7.19	4.28 3.21	6.55 8.10	5.22 4.19	5.50 6.30	3.98 2.52	14
15	2.81 4.78	5.72 6.19	2.75 3.70	5.99	4.16 5.75	2.43 2.31	5.79 7.93	4.88 3.91	6.60 7.73	4.92	5.54 6.27	3.72 2.63	15
16	2.60 4.09	5.56 5.76	5.81 6.43	3.25 3.57	4.38 6.16	2.92 2.25	6.45 9.04	5.73 4.80	3.80 4.60	6.59 7.43	5.63 6.31	3.47 2.93	16
17	2.50 3.67	5.59	5.66 6.79	3.50 3.46	4.69 6.82	3.42 2.58	7.10 8.54	5.61	3.79 4.36	6.59 7.16	6.07 6.37	3.59 3.21	17
18	5.80 5.81	2.72 3.45	5.76 6.91	3.68 3.26	5.13 6.95	3.75 2.66	4.52 6.41	7.38 9.31	3.67 4.16	6.58 6.90	6.17 6.04	3.20 3.11	18
19	5.94 6.14	3.10 3.42	5.66 7.08	3.83 2.99	5.41 7.19	4.04	5.38 5.76	7.64 8.42	3.72 3.98	6.70 6.49	6.14 6.02	3.01	19
20	5.98 6.30	3.29 3.20	5.58 7.04	3.84	2.75 3.99	5.43 7.13	4.65 5.12	7.03 7.71	3.69 3.90	6.70 6.23	3.60 3.59	6.74 6.19	20
21	5.76 6.27	3.24 2.74	2.77 4.00	5.52 7.07	2.69 4.06	5.51 7.09	4.23 4.90	7.06 7.20	3.83 3.89	6.81 6.04	3.64 2.99	6.45 5.94	21
22	5.48 6.43	3.24	2.70 4.12	5.57 7.16	2.90 4.35	6.05 7.13	4.03 4.52	6.92 6.35	4.11 3.72	6.87 5.59	3.81 2.85	6.39 5.34	22
23	2.60 3.37	5.40 6.61	2.75 4.13	5.66 7.02	2.96 3.96	5.85 6.59	3.59 4.01	6.52 5.68	4.16 3.54	6.67 5.54	3.75 2.67	6.19 5.14	23
24	2.58 3.72	5.43 6.90	2.73 4.05	5.65 6.58	2.83 3.69	5.87 5.89	3.50 3.94	6.58 5.36	4.90 4.09	7.21 5.57	3.99 2.57	6.08 5.10	24
25	2.64 3.87	5.49 6.89	2.47 3.68	5.47 5.92	2.46 3.28	5.59 5.32	3.71 3.88	6.71 5.06	4.84 3.33	6.68	4.36 2.75	6.10 5.21	25
26	2.72 4.25	5.67 7.07	2.21 3.56	5.43 5.64	2.33 3.12	5.66 5.00	3.86 3.34	6.47	5.40 6.61	4.88 3.33	4.55 2.63	5.96	26
27	2.88 4.29	5.74 6.68	2.32 3.46	5.72 5.42	2.76 3.35	6.17 5.19	4.58 6.18	3.82 2.88	5.62 6.90	4.90 3.63	5.25 5.70	4.54 2.59	27
28	2.64 4.18	5.66 6.37	2.59 3.21	5.95	3.50 3.02	6.54	4.58 6.31	4.10 2.91	6.14 7.09	5.20 3.52	5.26 5.34	4.16 2.07	28
29	2.52 3.63	5.52 5.44	5.10 5.80	2.71 2.74	4.74 6.31	3.47 2.63	5.44 7.16	4.95 3.34			4.82 5.04	3.37 1.99	29
30	1.94 2.91	5.04	4.84 6.03	2.97 2.64	4.72 6.20	3.67 2.37	5.90 7.08	5.09 3.19			4.89 5.19	3.15 2.11	30
31	5.18 5.45	2.28 2.85			4.80 6.38	3.86 2.33	5.87 6.93	4.82 2.95			5.17 5.45	2.95 2.55	31
MAXIMUM	7.07		7.16		7.19		9.31		8.12		7.33		MAXIMUM
MINIMUM	1.94		2.17		2.15		2.39		2.93		1.99		MINIMUM

LOCATION: LAT. 38 03 01, LONG. 121 29 45, NE SEC 2, T2N, R4E,
ON LITTLE CONNECTION SLOUGH ON EMPIRE TRACT, 0.7 MILE
SOUTH OF VENICE ISLAND FERRY.

PERIOD OF RECORD: OCT 1927 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

895580 SAN JOAQUIN RIVER AT VENICE ISLAND
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.51	2.69	6.27	2.36	7.70	2.82	6.91	2.28	3.34	6.24	2.91	5.33	1
	5.19	2.29	5.24	3.20	5.85	4.32	5.33	3.59	2.72	5.93	2.95	6.16	
2	5.23	2.20	6.41	2.26	7.47	2.64	6.68	2.36	3.36	5.92	2.85	5.14	2
	4.85	2.24	5.22	3.28	5.78	4.08	5.36		2.67	6.00	3.18	6.15	
3	5.39	1.99	6.48	2.15	7.21	2.56	3.40	6.19	3.19	5.58	2.61	4.91	3
	4.71	2.35	5.32	3.62	5.78		2.15	5.34	2.81	6.11	3.48	6.16	
4	5.69	2.02	6.89	2.50	3.97	6.91	3.19	5.73	3.05	5.23	2.75	5.31	4
	4.98	2.84	5.57		2.47	5.85	1.95	5.38	2.99	6.34	4.59	6.87	
5	6.15	2.16	3.90	6.90	3.93	6.54	3.05	5.40	3.08	5.19	3.02	5.32	5
	5.21		2.23	5.39	2.26	5.66	2.33	5.74	3.52	6.61	4.32	6.23	
6	3.46	6.66	3.74	6.61	3.48	5.78	2.99	5.08	2.95	5.22	2.35	4.94	6
	2.45	5.28	1.98	5.14	2.00	5.62	2.55	5.86	4.17	6.80	3.85		
7	3.65	6.58	3.70	6.39	3.14	5.24	2.69	4.58	2.89	5.19	5.98	2.22	7
	2.26	5.02	2.18	5.37	1.98	5.74	2.59	5.92	4.29		4.94	3.61	
8	3.61	6.24	3.57	5.90	2.87	4.87	2.45	4.42	6.79	2.80	5.85	2.16	8
	1.90	5.00	1.84	5.25	2.28		2.98		5.38	4.43	4.99	3.39	
9	3.81	6.10	3.31	5.39	6.03	2.74	6.11	2.27	6.72	2.64	5.84	2.17	9
	1.93		1.83		4.90	3.00	4.49	3.48	5.26	4.21	5.30	3.65	
10	5.14	3.75	5.29	2.82	6.35	2.73	6.35	2.49	6.54	2.39	6.39	2.95	10
	5.88	2.06	4.96	1.74	5.09	3.51	4.92	3.98	5.16	3.91	5.71	3.56	
11	5.36	3.59	5.44	2.62	6.64	2.66	6.57	2.46	6.48	2.42	6.08	2.68	11
	5.76	2.22	4.94	2.24	5.28	3.92	5.16	4.28	5.36	3.95	5.48	3.15	
12	5.51	3.31	5.85	2.73	6.68	2.57	6.69	2.51	6.57	2.55	5.83	2.67	12
	5.69	2.45	5.16	2.79	5.29	4.01	5.32	4.43	5.41	3.74	5.62	3.03	
13	5.71	3.03	6.15	2.80	6.69	2.41	6.91	2.91	6.37	2.46	5.73	2.88	13
	5.64	2.55	5.39	3.11	5.31	4.13	5.85	4.82	5.22	3.38	5.93		
14	5.66	2.63	6.33	2.67	6.76	2.29	7.23	3.02	6.20	2.46	2.94	5.51	14
	5.24	2.52	5.49	3.38	5.11	3.88	5.92	4.66	5.37	3.31	2.87	5.92	
15	5.73	2.48	6.38	2.40	6.39	1.96	7.05	2.84	6.11	2.62	2.70	5.32	15
	5.31	2.76	5.24	3.40	5.16	4.27	5.70	4.34	5.56		3.00	6.12	
16	5.86	2.31	6.30	2.18	6.61	2.22	6.79	2.74	3.22	5.86	2.70	5.19	16
	5.21	2.94	5.12	3.50	5.31	4.18	5.65	4.12	2.63	5.64	3.23	6.32	
17	6.01	2.45	6.39	2.16	6.58	2.03	6.57	2.69	3.04	5.57	2.54	5.00	17
	5.59	3.52	5.15	3.71	5.07		5.69		2.63	5.85	3.33	6.36	
18	6.03	2.12	6.51	2.28	3.79	5.99	3.95	6.33	2.99	5.38	2.48	4.99	18
	5.17	3.64	5.55	4.38	1.76	4.89	2.70	5.69	2.78	5.95	3.66	6.49	
19	6.16	2.06	6.84	2.57	3.63	5.84	3.78	6.01	2.81	5.05	2.45	5.05	19
	4.90		5.55		1.77	5.04	2.63	5.74	2.88	6.10	3.99	6.44	
20	3.40	5.84	4.19	6.47	3.60	5.65	3.51	5.65	2.48	4.71	2.27	5.12	20
	1.79	4.64	2.12	5.31	1.77	5.12	2.55	5.82	3.13	6.30	3.80	6.29	
21	3.50	5.82	4.02	6.28	3.45	5.48	3.12	4.97	2.45	4.71	2.19	5.05	21
	1.71	4.71	2.19	5.48	1.88	5.45	2.37	5.83	3.67	6.45	3.48		
22	3.70	5.76	4.23	6.05	3.68	5.45	2.85	4.68	2.27	4.77	6.10	2.30	22
	1.74	4.94	2.13	5.32	2.37	5.64	2.65	6.13	3.83	6.54	5.28	3.32	
23	4.14	5.86	4.00	5.55	3.08	4.72	2.53	4.51	2.38	5.08	6.04	2.43	23
	1.92	5.08	2.18	5.54	2.23	5.68	3.08	6.27	4.04		5.39	3.15	
24	4.33	5.61	3.78	5.14	2.65	4.48	2.26	4.38	6.63	2.20	5.95	2.55	24
	1.88		1.93	5.47	2.62	6.06	3.29	6.39	5.01	3.67	5.74	3.07	
25	5.11	4.12	3.45	5.05	2.44	4.43	2.05	4.58	6.63	2.30	5.79	2.55	25
	5.29	1.93	2.35		2.91		3.64		5.19	3.38	5.53	2.56	
26	5.25	3.79	5.83	3.07	6.30	2.22	6.71	2.20	6.50	2.46	5.45	2.46	26
	5.13	2.04	4.73	2.42	4.59	3.39	4.97	4.21	5.62	3.54	5.50	2.37	
27	5.51	3.59	5.96	2.64	6.62	2.22	7.35	2.80	6.54	2.65	5.26	2.62	27
	5.34	2.44	4.60	2.41	4.86	3.83	5.61	4.32	5.59	3.13	5.70		
28	5.74	3.15	5.87	2.14	7.03	2.60	7.41	2.88	6.08	2.38	2.36	5.23	28
	5.36	2.74	4.58	2.72	5.44	4.26	5.69	3.98	5.53	2.90	2.87	5.93	
29	5.94	2.76	6.24	2.20	7.28	2.56	7.20	2.75	5.89	2.50	2.44	5.27	29
	5.21	2.80	5.01	3.39	5.41	4.05	5.64	3.61	5.86		3.16	6.11	
30	6.23	2.68	6.89	2.72	7.16	2.44	6.88	2.67	3.13	6.01	2.60	5.39	30
	5.36	3.01	5.76	4.33	5.39	3.80	5.65	3.46	3.11	6.25	3.65	6.35	
31			7.61	2.91			6.59	2.61	3.09	5.65			31
			5.89	4.56			5.75		3.11	6.22			
MAXIMUM	6.66		7.61		7.70		7.41		6.80		6.87		MAXIMUM
MINIMUM	1.71		1.74		1.76		1.95		2.20		2.16		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.7 - 12/26/55

ZERO OF GAGE: 1927 -3.45 USCGS
1959 -4.00 USCGS
1964 -4.01 USCGS
1964 TO DATE -3.00 USCGS

TABLE R-12 (CONTINUED)
DAILY TIDES
895540 MIDDLE RIVER AT MOWRY BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.97 5.65	3.16 4.15	4.95 5.21	3.00	3.59 3.82	4.95 6.04	NR	NR	4.41 5.05	6.13 7.17	5.22 5.95	6.96 7.54	1
2	5.79 5.73	3.11 3.81	3.12 3.05	4.70 5.27	3.68 4.24	5.25 6.34	NR	NR	4.44 4.99	6.21 7.17	5.54 5.88	7.06 7.41	2
3	5.68 6.01	3.22 3.92	3.09 3.27	4.78 5.76	3.79 4.36	5.38 6.22	NR	NR	4.49 5.12	6.49 7.31	5.34 5.62	6.95 7.35	3
4	5.71 6.16	3.41	3.25 3.63	5.03 5.96	3.86 4.85	5.70 7.00	3.69 4.67	5.79 6.73	4.70 5.07	6.67 7.27	5.46 5.72	7.33 7.28	4
5	3.70 3.25	5.35 5.55	3.25 3.69	5.00 5.88	4.07 4.68	5.45 6.64	3.63 4.40	5.64 6.50	4.72 4.95	6.81 6.98	5.49 5.63	7.14 7.52	5
6	3.26 3.28	5.12 5.63	3.05 3.69	4.67 5.86	3.68 4.72	5.60 6.80	3.56 4.33	5.59 6.31	4.48 4.90	6.76 7.02	5.57 5.59	7.15 7.52	6
7	3.22 3.41	5.14 6.08	3.14 4.12	4.94 6.31	3.94 4.95	5.77 6.96	3.58 4.24	5.56 6.00	4.88 5.14	7.25 6.79	5.62 5.40	7.33 7.09	7
8	3.47 3.64	5.26 6.36	3.23 4.18	5.06 5.91	4.03 4.91	5.84 6.65	3.46 3.87	5.39 5.71	4.91 5.03	7.35 6.42	5.56 5.51	7.50 7.08	8
9	3.16 3.73	5.10 6.58	3.08 4.15	4.85 5.84	3.77 4.52	5.42 6.12	3.49 4.62	5.77 6.39	4.88 4.75	7.43	5.82 5.65	7.64 6.87	9
10	3.16 3.86	4.92 6.58	3.14 4.46	5.05 5.88	NR	NR	3.95 4.21	6.19 5.61	6.28 7.71	5.31 5.03	6.02 5.88	7.77	10
11	3.15 4.10	4.93 6.51	3.42 4.97	5.63 6.19	NR	NR	3.62 4.06	6.05	6.53 8.39	5.70	7.14 7.85	6.37 5.79	11
12	3.13 4.39	4.79 6.14	3.26 4.30	5.09 5.36	NR	NR	5.41 6.64	4.00 4.21	5.55 6.08	6.95 8.07	7.06 7.69	6.41 5.55	12
13	3.03 4.51	4.92 6.14	3.00 4.21	4.92 5.29	NR	NR	5.38 6.71	4.28 4.30	5.91 6.93	7.61 8.86	6.93 7.69	6.28	13
14	3.05 4.51	4.78 5.90	3.30 4.32	6.02	NR	NR	5.65 6.94	4.82	6.60 7.11	7.89 8.99	5.43 5.80	6.67 7.30	14
15	3.05 4.52	5.02	5.44 5.67	3.40 4.07	NR	NR	4.36 5.26	5.89 7.70	6.79 7.02	7.97 8.86	5.01 5.33	6.46 7.03	15
16	5.64 5.18	2.97 4.05	5.73 6.30	3.88 4.23	NR	NR	4.68 5.69	6.41 8.68	6.74 7.04	8.01 8.72	4.84 5.10	6.43 7.07	16
17	5.44 5.25	2.95 3.68	5.87 6.66	4.14	NR	NR	5.57 5.93	7.41 8.49	6.94 7.16	8.17 8.62	4.91 5.16	6.75 7.07	17
18	5.37 5.47	3.07 3.56	4.28 4.32	5.86 6.59	NR	NR	5.32 6.82	7.16 9.68	7.03 7.16	8.25 8.47	4.94 4.99	6.82 6.77	18
19	5.43 5.77	3.32	4.19 4.40	5.76 6.62	NR	NR	6.51 6.57	7.73 8.84	6.96 6.91	8.23 8.01	4.92 4.91	6.82 6.71	19
20	3.56 3.46	5.47 5.95	4.03 4.39	5.41 6.83	NR	NR	5.83 6.00	7.37 8.14	6.63 6.55	8.05 7.64	5.12 5.21	7.33 6.91	20
21	3.42 3.39	5.29 5.64	3.91 4.48	5.69 6.92	NR	NR	5.58 5.92	7.25 7.55	6.34 6.28	7.98	5.18 4.95	7.04 6.73	21
22	3.15 3.40	4.90 5.55	3.85 4.61	5.70 6.91	NR	NR	5.32 5.49	7.06 6.86	7.30 7.90	6.20 6.05	5.35 5.02	7.16 6.30	22
23	3.07 3.53	4.71 6.08	3.91 4.58	5.64 6.69	NR	NR	4.87 5.04	6.74 6.25	6.89 7.48	6.06 5.81	5.30 4.98	6.98 6.18	23
24	3.15 4.01	5.03 6.43	3.85 4.54	5.64 6.49	NR	NR	4.67 4.93	6.73	6.69 7.76	6.28	5.49 5.04	6.95 6.95	24
25	3.22 3.99	5.15 6.46	3.68 4.22	5.42 5.88	NR	NR	5.93 6.97	4.68 4.82	5.94 6.20	6.71 7.60	6.21 7.01	5.73 5.16	25
26	3.23 4.37	5.31 6.70	3.40 4.09	5.27 5.50	NR	NR	5.64 6.86	4.64 4.43	5.43 6.03	6.46 7.14	6.30 6.85	5.87 5.08	26
27	3.33 4.38	5.49 6.40	3.41 4.08	5.54	NR	NR	5.16 6.62	4.50	5.20 5.86	6.54 7.26	6.35 6.73	5.85 5.06	27
28	3.16 4.34	5.22	5.42 5.75	3.51 3.93	NR	NR	4.08 4.64	5.12 6.41	5.28 6.08	6.93 7.45	6.37 6.64	5.73 6.64	28
29	6.11 5.12	3.11 3.93	5.15 5.61	3.52 3.61	NR	NR	4.07 5.35	5.87 7.12			4.90 5.23	5.97 6.13	29
30	5.13 4.88	2.81 3.28	4.89 5.78	3.63	NR	NR	4.46 5.50	6.39 7.27			4.69 5.04	5.93 6.11	30
31	5.43 5.13	2.94 3.22			NR	NR	4.45 5.32	6.30 7.13			4.68 5.01	6.13 6.33	31
MAXIMUM	6.70		6.92		NR		NR		8.99		7.85		MAXIMUM
MINIMUM	2.81		3.00		NR		NR		4.41		4.68		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 50 04, LONG. 121 22 59, NE SEC 24, T15, R5E,
AT UNDINE RD CROSSING ON UPPER ROBERTS ISLAND.

PERIOD OF RECORD: JULY 1948 TO SEPT 1966
MARCH 1968 TO DATE

TABLE R-12 (CONTINUED)
 DAILY TIDES
 895540 MIDDLE RIVER AT MOWRY BRIDGE
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	4.85 4.89	6.29 6.19					3.83 2.81	5.84 5.15	3.40 2.73	5.25 5.44	3.21 3.16	4.67 5.62	1
2	4.71 4.70	6.17 5.89					3.57 2.55	5.98 5.13	3.44 2.51	5.04 5.39	3.17 3.30	4.50 5.95	2
3	4.60 4.52	6.23 5.68					3.29 1.99	5.57 5.02	3.17 2.53	4.75	2.94 3.49	4.39	3
4	4.52 4.50	6.39 5.81					3.20 1.99	4.92	5.34 4.30	2.90 2.83	6.10 5.14	2.96 4.68	4
5	4.70 4.47	6.47 5.96					5.09 4.58	3.11 2.63	5.49 4.36	3.01 3.45	6.70 5.08	3.24 4.30	5
6	4.95 4.58	7.01 6.00					5.08 4.54	3.03 2.75	6.07 4.87	2.75 4.11	5.91 4.87	2.78 3.81	6
7	4.97 4.46	7.04					5.11 3.87	2.75 2.72	6.18 4.95	2.76 4.30	5.50 4.72	2.02 3.53	7
8	5.68 6.57	4.75 4.35					5.04 3.85	2.66 3.00	6.17 5.00	2.85 4.43	5.40 4.61	2.12 3.39	8
9	5.60 6.42	4.74 4.32					5.17 4.09	2.40 3.39	6.03 5.12	2.78 4.12	5.23 4.74	2.21	9
10	5.63 6.20	4.61					5.46 4.73	2.69 3.91	5.75 5.00	2.59 3.88	3.71 3.16	5.65 5.56	10
11	NR	NR	NR	NR	NR	NR	5.77 4.96	1.99 4.21	5.76 4.79	2.71	3.72 2.91	5.63 5.39	11
12	NR	NR	NR	NR	NR	NR	5.75 5.15	1.99 4.38	3.95 2.86	5.70 5.21	3.30 2.97	5.36 5.54	12
13	NR	NR	NR	NR	NR	NR	6.02 5.63	2.82	3.55 2.64	5.57 5.06	3.37 3.21	5.34 5.80	13
14	NR	NR	NR	NR	NR	NR	4.69 3.02	6.33 5.75	3.47 2.71	5.11 5.09	3.37 3.13	5.11 5.77	14
15	NR	NR	NR	NR	NR	NR	4.58 3.04	6.12 5.53	3.39 2.62	4.90 5.07	3.20 3.25	4.90 5.65	15
16	NR	NR	NR	NR	NR	NR	3.97 2.84	6.21 5.41	3.30 2.72	4.91 5.17	3.19 3.49	5.01 5.74	16
17	NR	NR	NR	NR	NR	NR	4.00 2.74	5.81 5.47	3.15 2.70	4.70 5.27	3.10 3.53	5.02 5.90	17
18	NR	NR	NR	NR	NR	NR	3.95 2.76	5.37 5.43	3.09 2.71	4.47 5.41	2.99 3.75	4.95 6.06	18
19	NR	NR	NR	NR	NR	NR	3.72 2.63	5.10 5.29	2.93 2.74	4.14 5.72	2.97 4.05	5.10	19
20	NR	NR	NR	NR	NR	NR	3.51 2.39	4.92 5.33	2.48 3.04	4.12	6.00 5.14	2.82 3.90	20
21	NR	NR	NR	NR	4.95 4.80	3.44 2.60	3.06 2.50	4.21	5.95 4.14	2.44 3.68	5.87 5.07	2.83 3.66	21
22	NR	NR	NR	NR	5.04 4.95	3.64 2.74	5.05 4.00	2.93 2.80	5.94 4.44	2.37 3.83	5.74 4.94	2.85 3.50	22
23	NR	NR	NR	NR	5.17 4.15	3.05 2.71	5.50 4.03	2.58 3.08	5.74 4.74	2.54 4.02	5.69 5.24	3.03	23
24	NR	NR	NR	NR	4.98 4.09	2.87 2.85	5.66 3.93	2.03 3.30	5.85 4.77	2.58 3.69	3.49 3.13	5.62 5.73	24
25	NR	NR	NR	NR	5.02 4.20	2.74 3.03	5.46 4.31	2.00 3.61	5.73 4.59	2.63 3.42	3.52 3.22	5.51 5.56	25
26	NR	NR	NR	NR	5.44 4.43	2.64 3.42	5.85 4.79	2.62 4.17	5.47 5.19	2.79	3.18 3.06	5.28 5.43	26
27	NR	NR	NR	NR	5.79 4.80	2.46 3.84	6.30 5.43	3.06 4.30	3.58 3.01	5.75 5.08	3.07 3.12	4.94 5.41	27
28	NR	NR	NR	NR	6.01 5.30	2.83 4.23	6.56 5.21	3.18	3.20 2.69	4.89 5.32	3.03 3.25	4.82 5.56	28
29	NR	NR	NR	NR	6.54 5.27	2.79	4.03 3.14	6.40 4.78	3.20 2.88	4.90 5.35	3.10 3.43	4.78 5.63	29
30	NR	NR	NR	NR	4.04 2.78	6.20 5.20	3.62 2.84	5.86 5.13	3.34 3.27	5.16 5.75	3.19 3.84	4.88 5.68	30
31			NR	NR			3.55 2.78	5.66 5.23	3.39 3.30	5.08 5.72			31
MAXIMUM	NR		NR		NR		6.56		6.18		6.70		MAXIMUM
MINIMUM	NR		NR		NR		1.99		2.37		2.02		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 16.8 - 12/10/50
 MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --

ZERO OF GAGE: 1948 TO 1952 -2.70 USCGS
 1952 -2.67 USCGS
 1964 -3.23 USCGS
 1964 TO DATE -3.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

895500 MIDDLE RIVER AT BORDEN HIGHWAY
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	-0.52 0.77	2.23 2.71	1.84 2.11	-0.50 -0.34	1.66 2.80	0.23 -0.26	1.64 3.05	1.01	NR	NR	3.19 3.86	1.75 0.57	1
2	-0.55 0.43	2.27	1.61 2.18	-0.40 -0.43	1.98 3.12	0.77 -0.15	-0.54 1.20	2.13 3.37	NR	NR	3.17 3.71	1.41	2
3	NR	NR	1.72 2.52	-0.08	2.11 3.09	0.89 0.04	-0.07 1.32	2.56 3.48	NR	NR	0.48 1.17	3.14 3.75	3
4	2.73 2.84	0.02 0.36	-0.25 0.41	1.97 2.79	2.49 3.74	1.47	-0.22 1.29	2.36 3.46	NR	NR	0.80 1.28	3.56 3.71	4
5	2.39 2.44	-0.17 -0.17	-0.23 0.46	1.90 2.64	0.16 1.26	2.36 3.40	-0.35 0.97	2.23 3.23	NR	NR	0.84 1.12	3.48 3.75	5
6	2.17 2.54	-0.08	-0.57 0.50	1.62 2.73	-0.40 1.40	2.41 3.56	-0.41 0.87	2.22 3.05	NR	NR	0.90 1.11	3.58 3.78	6
7	-0.23 0.17	2.21 2.84	-0.46 0.92	1.83 3.20	0.03 1.62	2.51 3.74	-0.38 0.78	2.25 2.76	0.98 1.20	3.82 3.23	1.16 0.89	3.78 3.37	7
8	0.13 0.49	2.28 3.08	-0.33 0.86	1.87 2.75	0.11 1.52	2.54 3.37	-0.47 0.31	2.13 2.47	0.82 0.88	3.78 2.80	1.19 0.89	3.96 3.27	8
9	-0.36 -0.91	2.69	-0.73 0.88	1.66 2.69	-0.18 1.14	2.16 2.86	-0.30 1.20	2.59 3.10	0.86 0.61	3.90 2.74	1.44 0.73	4.04 2.87	9
10	1.33 2.70	0.13 -0.87	-0.65 1.27	1.91 2.75	-0.59 1.01	1.97 2.47	0.19 0.66	2.94 2.21	1.67 1.03	4.36	1.33 0.54	3.92 3.03	10
11	1.30 2.61	0.39 -0.96	-0.31 1.70	2.48 2.97	-0.65 0.93	2.12 2.38	NR	NR	3.02 4.91	2.11 1.43	1.80 0.49	4.05	11
12	1.19 2.45	0.63 -1.14	-0.56 1.05	1.94 2.19	-0.66 0.55	2.13 1.84	NR	NR	3.32 4.58	2.26 1.05	2.97 3.86	1.98 0.20	12
13	NR	NR	-0.86 1.00	1.83 2.16	-0.82 0.15	2.14 1.53	NR	NR	3.61 4.91	2.47 1.16	2.91 3.85	1.87 0.09	13
14	NR	NR	-0.36 0.97	2.79 2.27	-0.66 -0.59	2.05	NR	NR	3.62 4.99	2.22	2.67 3.49	1.22 -0.33	14
15	NR	NR	-0.34 0.58	2.47	1.00 2.22	-0.60 -0.64	NR	NR	1.33 1.98	3.69 4.77	2.57 3.27	0.75 -0.22	15
16	NR	NR	2.53 3.05	0.24 0.58	1.18 2.57	-0.12 -0.68	NR	NR	1.05 1.67	3.65 4.47	2.62 3.34	0.52	16
17	NR	NR	2.55 3.39	0.49 0.48	1.43 3.14	0.37 -0.33	NR	NR	0.98 1.48	3.70 4.24	0.05 0.70	3.01 3.38	17
18	NR	NR	2.54 3.34	0.64 0.29	1.80 3.38	0.74	NR	NR	0.90 1.31	3.70 4.02	0.30 0.36	3.13 3.04	18
19	NR	NR	2.43 3.43	0.79	-0.26 1.02	2.15 3.68	NR	NR	0.93 1.15	3.80 3.60	0.21 0.16	3.11 3.01	19
20	NR	NR	0.06 0.84	2.19 3.58	-0.14 0.97	2.20 3.64	NR	NR	0.84 1.04	3.78 3.34	0.63 0.66	3.68 3.20	20
21	NR	NR	-0.13 0.96	2.35 3.66	-0.21 1.01	2.41 3.64	NR	NR	0.94 0.99	3.88 3.13	0.67 0.13	3.39 2.97	21
22	NR	NR	-0.20 1.13	2.38 3.72	-0.01 1.33	2.74 3.73	NR	NR	1.16 0.81	3.92 2.69	0.85 -0.02	3.39 2.40	22
23	NR	NR	-0.14 1.11	2.37 3.49	0.05 0.94	2.55 3.19	NR	NR	1.15 0.57	3.57	0.76 -0.21	3.23 2.22	23
24	NR	NR	-0.17 1.02	2.34 3.21	-0.10 0.73	2.49 2.54	NR	NR	2.59 4.03	1.77 1.09	0.95 -0.31	3.13 2.18	24
25	NR	NR	-0.44 0.66	2.15 2.58	-0.48 0.24	2.15 1.95	NR	NR	2.65 3.77	1.78 0.38	1.31 -0.14	3.17	25
26	NR	NR	-0.72 0.52	2.03 2.25	-0.64 0.09	2.19 1.77	NR	NR	2.50 3.46	1.83 0.36	2.29 2.96	1.50 -0.30	26
27	NR	NR	-0.64 0.45	2.28 2.14	-0.27 0.33	2.65	NR	NR	2.71 3.69	1.82 0.72	2.39 2.79	1.49 -0.33	27
28	NR	NR	-0.41 0.19	2.50	1.98 3.22	0.46 0.11	NR	NR	3.23 3.90	2.15 0.56	2.36 2.57	1.17 -0.74	28
29	NR	NR	1.87 2.36	-0.30 -0.26	1.72 2.92	0.43 -0.35	NR	NR	NR	NR	1.92 2.13	0.42 -0.92	29
30	NR	NR	1.60 2.54	-0.08 -0.34	1.58 2.73	0.62 -0.58	NR	NR	NR	NR	1.94 2.19	0.16 -0.80	30
31	2.08 2.00	-0.72 -0.16			1.57 3.03	0.86 -0.54	NR	NR	NR	NR	2.19 2.48	0.01 -0.35	31
MAXIMUM	NR		3.72		3.74		NR		NR		4.05		MAXIMUM
MINIMUM	NR		-0.86		-0.82		NR		NR		-0.92		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 53 28, LONG. 121 29 20, NW SEC 36, T1N, R4E,
VICTORIA ISLAND BELOW STATE HWY 4 BRIDGE, 10 MILES
NW OF TRACY.

PERIOD OF RECORD: JULY 1939 TO DATE

TABLE R-12 (CONTINUED)
DAILY TIDES
895500 MIDDLE RIVER AT BORDEN HIGHWAY
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.47	-0.19	2.67	-0.82	3.88	-0.48	2.91	-1.07	0.14	2.52	-0.27	1.77	1
	2.26	-0.51	1.96	-0.05	2.43		1.82		-0.46	2.53	-0.18	2.56	
2	2.35	-0.48	2.89	-0.89	0.97	3.70	-0.03	2.81	0.14	2.28	-0.33	1.56	2
	1.98		1.89	0.03	-0.66	2.31	-0.99	1.83	-0.53	2.49	0.09	2.82	
3	-0.60	2.41	2.86	1.00	0.73	3.33	-0.22	2.63	-0.04	1.98	-0.58	1.35	3
	-0.71	1.79	2.02		-0.77	2.03	-1.02	1.99	-0.41	2.51	0.36	2.92	
4	-0.55	2.61	0.35	3.49	0.55	2.99	0.00	2.08	-0.21	1.62	-0.42	1.95	4
	-0.76	1.96	-0.67	2.27	-0.83	2.30	-1.21	2.02	-0.16	2.66	1.55	3.66	
5	-0.14	2.87	0.63	3.52	0.56	2.74	-0.18	1.73	-0.14	1.61	-0.17	2.01	5
	-0.74	2.17	-0.91	1.90	-1.07	2.16	-0.92	2.18	0.39	3.20	1.19		
6	0.44	3.46	0.54	2.86	0.07	2.13	-0.25	1.60	-0.23	1.91	2.87	-0.79	6
	-0.42	2.25	-1.23	1.83	-1.37		-0.72		1.06	3.33	1.75	0.69	
7	0.64	3.53	0.41	2.88	2.04	-0.24	2.29	-0.54	-0.34	1.80	2.55	-0.88	7
	-0.56	2.00	-1.07	2.03	1.64	-1.40	1.08	-0.61	1.25		1.74	0.45	
8	0.56	3.06	0.28	2.57	2.11	-0.54	2.23	-0.79	3.22	-0.41	2.42	-0.88	8
	1.00		-1.35		1.42	-1.11	0.93	-0.16	1.98	1.34	1.63	0.23	
9	1.95	0.74	1.88	0.00	2.22	-0.68	2.38	-0.95	3.11	-0.56	2.28	-0.96	9
	2.93	-1.02	2.08	-1.43	1.27	-0.43	1.24	0.32	2.01	1.04	1.78	0.52	
10	2.05	0.65	1.43	-0.43	2.48	-0.68	2.64	-0.73	2.90	-0.79	2.72	-0.21	10
	2.73	-0.94	1.45	-1.51	1.41	0.18	1.68	0.83	1.90	0.75	2.47	0.38	
11	2.24	0.48	1.84	-0.66	2.70	-0.73	2.90	-0.76	2.82	-0.76	2.63	-0.45	11
	2.67	-0.81	1.57	-1.03	1.86	0.52	1.90	1.14	1.81	0.84	2.24		
12	2.39	0.24	2.40	-0.53	2.88	-0.80	2.95	-0.69	2.84	-0.62	-0.02	2.38	12
	2.59	-0.57	1.79	-0.52	1.86	0.64	2.07	1.28	2.05	0.46	-0.47	2.34	
13	2.55	-0.08	2.71	-0.48	2.91	-0.95	3.21	-0.28	2.56	-0.70	-0.13	2.30	13
	2.53	-0.51	2.02	-0.20	1.84	0.74	2.53	1.68	1.94	0.17	-0.28	2.62	
14	2.50	-0.41	2.89	-0.58	2.95	-1.09	3.54	-0.15	2.32	-0.74	-0.21	2.17	14
	2.13	-0.55	1.80	0.00	1.64	0.49	2.64	1.49	2.03		-0.28	2.62	
15	2.56	-0.59	2.95	-0.87	2.61	-1.39	3.30	-0.34	0.12	2.29	-0.44	1.88	15
	2.15	-0.34	1.51	0.12	1.68	0.94	2.42		-0.56	2.17	-0.16	2.59	
16	2.50	-0.71	2.86	-1.09	2.82	-1.15	0.87	3.24	0.01	2.16	-0.44	1.92	16
	2.07		1.56	0.23	1.80		-0.42	2.36	-0.54	2.22	0.09	2.73	
17	-0.18	2.79	2.96	-1.06	0.83	2.69	0.92	2.81	-0.19	1.93	-0.60	1.79	17
	-0.59	2.44	1.39	0.34	-1.29	1.63	-0.48	2.36	-0.58	2.45	0.17	2.86	
18	0.41	2.75	2.61	-0.98	0.15	2.36	0.75	2.52	-0.23	1.74	-0.67	1.78	18
	-0.90	1.99	2.15		-1.53	1.39	-0.48	2.36	-0.40	2.33	0.56	3.01	
19	0.45	2.76	1.09	3.10	0.04	2.09	0.54	2.31	-0.38	1.41	-0.71	1.86	19
	-0.81	1.79	-0.74	2.22	-1.59	1.57	-0.57	2.38	-0.28	2.70	0.87	2.95	
20	0.34	2.58	0.87	2.76	0.20	1.82	0.27	2.08	-0.70	1.18	-0.85	1.92	20
	-1.14	1.56	-1.12	1.65	-1.60	1.61	-0.64	2.42	0.00	2.46	0.65		
21	0.37	2.44	0.73	2.55	0.03	1.63	-0.10	1.44	-0.72	1.23	2.81	-0.93	21
	-1.36	1.57	-1.03	2.10	-1.53	1.90	-0.83	2.18	0.56	3.13	1.82	0.32	
22	0.57	2.36	0.93	2.42	0.29	1.76	-0.37	1.16	-0.94	1.43	2.67	-0.86	22
	-1.35	1.65	-1.16	1.98	-1.01		-0.49	2.64	0.69		1.94	0.15	
23	1.04	2.43	0.67	1.97	2.00	-0.35	-0.61	1.23	2.89	-0.80	2.59	-0.70	23
	-1.21		-1.15		1.04	-1.17	-0.11	2.75	1.78	0.92	2.12	-0.04	
24	1.87	1.17	2.00	0.42	1.86	-0.76	-0.95	1.03	2.97	-0.96	2.51	-0.60	24
	2.28	-1.28	1.64	-1.37	0.80	-0.76	0.17		1.74	0.49	2.45	-0.07	
25	1.86	0.91	1.90	0.07	2.04	-0.96	2.62	-1.15	2.90	-0.85	2.40	-0.50	25
	1.99	-1.24	1.54	-1.06	0.90	-0.48	1.31	0.51	1.69	0.21	2.30		
26	1.96	0.57	2.12	-0.30	2.37	-1.19	2.98	-0.98	2.70	-0.67	-0.53	2.18	26
	1.78	-1.10	1.15	-0.93	1.13	0.02	1.67	1.08	2.13	0.35	-0.66	2.22	
27	2.21	0.37	2.13	-0.68	2.71	-1.13	3.51	-0.37	2.78	-0.47	-0.77	1.84	27
	2.16	-0.72	1.00	-0.94	1.41	0.50	2.31	1.17	2.23		-0.52	2.28	
28	2.44	-0.05	1.88	-1.16	3.01	-0.77	3.66	-0.28	-0.21	2.22	-0.77	1.74	28
	1.93	-0.43	1.17	-0.62	1.95	0.89	2.17	0.84	-0.77	2.21	-0.26	2.45	
29	2.47	-0.42	2.37	-1.10	3.44	-0.80	3.50	-0.40	-0.27	2.10	-0.66	1.74	29
	1.87	-0.40	1.61	0.06	1.93	0.68	1.91	0.45	-0.66	2.37	0.02	2.56	
30	2.55	-0.41	2.98	-0.63	3.21	-0.89	3.09	-0.51	-0.05	2.30	-0.54	1.86	30
	2.10	-0.21	2.33	1.02	1.89	0.42	2.19		-0.07	2.76	0.58	2.67	
31			3.71	-0.39			0.27	2.87	-0.09	2.13			31
			2.50	1.17			-0.56	2.33	-0.10	2.72			
MAXIMUM	3.53		3.71		3.88		3.66		3.33		3.66		MAXIMUM
MINIMUM	-1.36		-1.51		-1.60		-1.21		-0.96		-0.96		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.2 - 12/26/65

ZERO OF GAGE: 1939 TO 1943 -4.10 USCGS
1943 0.00 USCGS
1964 -0.59 USCGS
1964 TO DATE 0.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

895460 MIDDLE RIVER AT BACON ISLAND
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.82 4.11	5.80	5.07 5.53	2.49 2.63	4.86 6.18	3.25 2.67	4.87 6.34	3.95 2.37	5.58 6.72	4.31	6.11 6.95	4.75 3.45	1
2	6.45 5.69	2.79 3.78	4.96 5.60	2.59 2.54	5.22 6.54	3.77 2.78	5.14 6.66	4.21 2.84	2.88 4.18	5.64 6.78	6.10 6.81	4.34 3.36	2
3	NR	NR	5.11 5.97	2.97 2.72	5.36 6.61	3.94 3.00	5.57 6.73	4.33	3.04 4.31	5.94 7.04	6.10 6.93	4.13 3.69	3
4	NR	NR	5.37 6.22	3.42 2.75	5.82 7.09	4.46	2.67 4.25	5.37 6.67	3.36 4.30	6.22 7.07	6.53 6.95	4.20	4
5	NR	NR	5.24 6.04	3.44	3.06 4.29	5.55 6.74	2.55 3.99	5.26 6.45	3.45 4.04	6.28 6.51	3.75 4.04	6.64 6.72	5
6	NR	NR	2.38 3.51	5.03 6.18	2.59 4.48	5.78 6.90	2.47 3.87	5.23 6.34	3.25 4.08	6.45 6.58	3.80 4.04	6.85 6.74	6
7	NR	NR	2.49 3.93	5.19 6.62	2.96 4.63	5.75 7.09	2.52 3.78	5.39 6.08	3.91 4.14	6.97 6.20	4.06 3.82	7.00 6.34	7
8	NR	NR	2.62 3.86	5.15 6.10	3.02 4.52	5.74 6.63	2.43 3.44	5.36 5.73	3.74 3.79	6.76 5.76	4.13 3.79	7.16 6.22	8
9	NR	NR	2.21 3.90	4.91 6.00	2.68 4.13	5.35 6.15	2.69 4.35	6.00 6.28	3.85 3.62	6.90 5.74	4.41 3.63	7.26 5.77	9
10	NR	NR	2.28 4.29	5.22 6.12	2.30 4.00	5.23 5.80	3.15 3.70	6.23 5.26	4.75 4.00	7.56 6.00	4.30 3.44	6.98 5.91	10
11	NR	NR	2.64 4.68	5.84 6.21	2.26 3.96	5.45 5.62	2.87 3.45	6.24 5.07	5.18 4.41	8.06	4.78 3.33	7.15	11
12	NR	NR	2.39 4.06	5.24 5.51	2.27 3.56	5.46 4.98	3.34 3.34	6.69 4.95	6.30 7.82	5.33 3.98	5.77 6.93	4.94 3.06	12
13	NR	NR	2.13 4.15	5.28 5.59	2.12 3.16	5.54 4.66	3.75 3.26	6.96	6.54 7.83	5.47 3.98	5.81 6.82	4.87 2.84	13
14	NR	NR	2.65 4.04	6.05 5.55	2.32 2.37	5.47	5.14 7.12	4.23 3.15	6.49 8.03	5.17 4.15	5.52 6.30	4.07 2.48	14
15	NR	NR	2.70 3.67	5.91	4.12 5.69	2.40 2.29	5.74 7.84	4.83 3.86	6.55 7.68	4.87 3.84	5.50 6.23	3.68 2.60	15
16	NR	NR	5.78 6.36	3.22 3.53	4.35 6.08	2.89 2.22	6.33 8.95	5.60 4.75	6.53 7.38	4.56	5.59 6.26	3.44 2.89	16
17	NR	NR	5.62 6.72	3.47 3.42	4.66 6.73	3.39 2.56	7.04 8.46	5.55	3.75 4.32	6.55 7.12	5.99 6.31	3.56 3.18	17
18	NR	NR	5.73 6.82	3.64 3.22	5.06 6.88	3.75 2.64	4.43 6.35	7.21 9.22	3.65 4.13	6.55 6.86	6.11 5.99	3.18 3.08	18
19	NR	NR	5.63 6.99	3.78 2.96	5.37 7.12	4.01	5.35 5.71	7.57 8.35	3.69 3.95	6.66 6.45	6.09 5.98	2.99	19
20	NR	NR	5.53 6.97	3.81	2.72 3.97	5.39 7.07	4.61 5.07	6.94 7.63	3.66 3.87	6.66 6.19	3.55 3.54	6.68 6.13	20
21	NR	NR	2.74 3.97	5.49 7.01	2.66 4.03	5.47 7.03	4.18 4.87	7.00 7.13	3.80 3.85	6.76 6.01	3.60 3.00	6.40 5.89	21
22	NR	NR	2.67 4.12	5.53 7.10	2.87 4.32	5.99 7.07	3.99 4.47	6.86 6.28	4.09 3.67	6.81 5.55	3.78 2.82	6.33 5.30	22
23	NR	NR	2.72 4.10	5.61 6.95	2.93 3.94	5.80 6.53	3.55 3.97	6.46 5.63	4.12 3.49	6.62 5.52	3.72 2.64	6.14 5.10	23
24	NR	NR	2.70 4.04	5.59 6.53	2.80 3.70	5.81 5.86	3.46 3.90	6.51 5.30	4.85 4.04	7.17 5.54	3.95 2.55	6.04 5.06	24
25	NR	NR	2.45 3.67	5.41 5.87	2.43 3.25	5.53 5.26	3.67 3.83	6.64 5.00	4.79 3.30	6.64	4.32 2.70	6.06 5.16	25
26	NR	NR	2.18 3.53	5.37 5.58	2.31 3.09	5.59 4.97	3.80 3.30	6.43	5.36 6.55	4.85 3.29	4.52 2.59	5.93	26
27	NR	NR	2.30 3.46	5.65 5.37	2.73 3.32	6.09 5.15	4.53 6.13	3.78 2.84	5.59 6.83	4.86 3.61	5.22 5.66	4.50 2.54	27
28	2.59 4.13	5.58 6.31	2.55 3.19	5.89 5.04	3.46 3.00	6.52	4.55 6.25	4.07 2.86	6.11 7.03	5.15 3.47	5.21 5.35	4.14 2.05	28
29	2.48 3.63	5.44 5.38	2.68 2.70	5.72	4.72 6.28	3.45 2.59	5.37 7.10	4.95 3.29			4.79 5.01	3.35 1.96	29
30	1.97 2.87	5.04	4.80 5.95	2.93 2.61	4.69 6.14	3.66 2.34	5.85 7.03	5.04 3.15			4.84 5.15	3.11 2.07	30
31	5.13 5.38	2.23 2.83			4.76 6.39	3.84 2.32	5.81 6.89	4.78 2.90			5.12 5.41	2.91 2.55	31
MAXIMUM	NR		7.10		7.12		9.22		8.06		7.26		MAXIMUM
MINIMUM	NR		2.13		2.12		2.37		2.88		1.96		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 00 07, LONG. 121 31 22, SW SEC 22, T2N, R4E,
AT NE CORNER OF BACON ISLAND AT JUNCTION OF MIDDLE
RIVER AND CONNECTION SLOUGH.PERIOD OF RECORD: OCT 1948 TO SEPT 1966
MAR 1968 TO DATE.

TABLE R-12 (CONTINUED)
 DAILY TIDES
 895460 MIDDLE RIVER AT BACON ISLAND
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.48 5.16	2.65 2.27	6.19 5.18	2.31 3.15	7.59 5.79	2.78 4.28	6.83 5.27	2.25 3.57	3.29 2.69	6.16 5.86	2.87 2.93	5.27 6.09	1
2	5.22 4.85	2.24 2.22	6.33 5.10	2.22 3.23	7.40 5.69	2.58	6.59 5.29	2.33	3.31 2.62	5.86 5.94	2.82 3.16	5.08 6.10	2
3	5.38 4.70	2.04 2.32	6.39 5.24	2.10 3.57	4.06 2.51	7.11 5.72	3.28 2.11	6.11 5.28	3.15 2.77	5.52 6.04	2.57 3.45	4.84 6.11	3
4	5.62 4.93	2.02 2.81	6.80 5.50	2.45	3.93 2.42	6.81 5.69	3.15 1.91	5.67 5.31	2.98 2.98	5.18 6.27	2.72 4.60	5.27 6.81	4
5	6.10 5.16	2.12	3.85 2.20	6.84 5.32	3.89 2.22	6.46 5.58	3.00 2.28	5.33 5.67	3.05 3.49	5.14 6.56	2.96 4.29	5.28 6.18	5
6	3.42 2.42	6.60 5.22	3.70 1.93	6.52 5.08	3.43 1.94	5.72 5.55	2.95 2.50	5.03 5.81	2.92 4.15	5.15 6.74	2.31 3.83	4.88 6.11	6
7	3.63 2.25	6.54 4.99	3.66 2.13	6.31 5.31	3.09 1.93	5.18	2.64 2.55	4.54 5.85	2.84 4.30	5.15	5.93 4.90	2.20 3.59	7
8	3.57 1.87	6.19 4.94	3.54 1.78	5.85 5.19	5.66 4.82	2.82 2.22	2.40 2.94	4.36	6.70 5.33	2.76 4.42	5.82 4.95	2.17 3.37	8
9	3.79 1.90	6.05	3.25 1.75	5.34	5.93 4.83	2.68 2.93	6.05 4.44	2.22 3.45	6.65 5.21	2.60 4.18	5.78 5.22	2.14 3.62	9
10	5.06 5.85	3.71 2.01	5.19 4.89	2.78 1.68	6.25 5.01	2.67 3.46	6.28 4.88	2.44 3.96	6.47 5.11	2.36 3.88	6.30 5.65	2.90 3.52	10
11	5.30 5.70	3.55 2.16	5.37 4.87	2.57 2.18	6.55 5.22	2.61 3.87	6.49 5.12	2.42 4.24	6.40 5.29	2.38 3.94	6.03 5.43	2.65 3.11	11
12	5.45 5.64	3.28 2.40	5.78 5.10	2.69 2.73	6.59 5.21	2.52 3.98	6.62 5.28	2.47 4.39	6.50 5.36	2.50 3.70	5.78 5.57	2.63 3.00	12
13	5.65 5.58	2.97 2.50	6.08 5.32	2.75 3.05	6.61 5.22	2.37 4.09	6.85 5.76	2.86 4.79	6.29 5.17	2.42 3.33	5.68 5.86	2.84	13
14	5.60 5.19	2.59 2.47	6.26 5.42	2.63 3.32	6.67 5.04	2.25 3.84	7.15 5.87	3.00 4.63	6.11 5.32	2.42 3.27	2.89 2.83	5.48 5.86	14
15	5.66 5.23	2.43 2.70	6.31 5.15	2.34 3.37	6.32 5.06	1.94 4.23	6.97 5.64	2.79 4.30	6.03 5.51	2.57	2.67 3.19	5.16 6.24	15
16	5.79 5.15	2.27 2.89	6.24 5.03	2.12 3.45	6.54 5.22	2.18 4.16	6.70 5.60	2.71 4.09	NR	NR	4.97 6.29	3.29	16
17	5.94 5.52	2.40 3.47	6.32 5.05	2.12 3.65	6.49 5.01	2.01	6.48 5.63	2.65	NR	NR	2.45 2.24	6.38 5.07	17
18	5.97 5.11	2.07 3.58	6.42 5.46	2.23 4.34	3.71 1.74	5.92 4.83	3.91 2.67	6.24 5.63	NR	NR	6.24 5.00	2.16	18
19	6.10 4.83	2.07	6.74 5.49	2.50	3.52 1.74	5.76 4.98	3.72 2.58	5.92 5.67	NR	NR	3.46 2.25	6.05 5.22	19
20	3.39 1.77	5.83 4.60	4.16 2.08	6.39 5.21	3.54 1.71	5.59 5.05	3.45 2.51	5.56 5.76	NR	NR	3.29 2.38	5.98 5.34	20
21	3.48 1.68	5.79 4.64	3.99 2.14	6.19 5.41	3.45 1.83	5.34 5.39	3.07 2.32	4.91 5.75	NR	NR	3.69 2.43	5.39 5.45	21
22	3.69 1.70	5.69 4.88	4.20 2.07	5.97 5.25	3.65 2.32	5.38 5.58	2.81 2.64	4.63 6.06	NR	NR	5.21 5.64	2.56	22
23	4.10 1.87	5.80 5.02	3.96 2.09	5.49 5.48	3.05 2.17	4.65 5.61	2.48 3.05	4.47 6.22	NR	NR	NR	NR	23
24	4.30 1.83	5.58	3.73 1.89	5.08	2.61 2.58	4.41 5.99	2.22 3.25	4.34	6.56 4.97	2.16 3.63	NR	NR	24
25	5.05 5.24	4.09 1.88	5.40 4.98	3.39 2.26	2.40 2.88	4.38	6.33 4.53	2.01 3.62	6.54 5.14	2.26 3.36	NR	NR	25
26	5.18 5.06	3.75 2.01	5.75 4.68	3.01 2.36	6.21 4.53	2.18 3.35	6.63 4.92	2.15 4.19	6.42 5.54	2.43 3.51	NR	NR	26
27	5.46 5.29	3.53 2.37	5.86 4.52	2.59 2.37	6.54 4.81	2.19 3.80	7.26 5.57	2.75 4.30	6.45 5.51	2.61 3.08	NR	NR	27
28	5.68 5.28	3.09 2.68	5.77 4.52	2.09 2.67	6.95 5.37	2.56 4.22	7.31 5.63	2.84 3.96	6.00 5.49	2.34 2.86	NR	NR	28
29	5.88 5.14	2.71 2.75	6.16 4.95	2.16 3.36	7.21 5.35	2.53 4.02	7.12 5.55	2.71 3.58	5.81 5.80	2.46	NR	NR	29
30	6.14 5.30	2.66 2.96	6.80 5.69	2.66 4.32	7.08 5.33	2.42 3.78	6.79 5.59	2.63 3.44	3.08 3.06	5.94 6.17	NR	NR	30
31			7.51 5.83	2.88 4.51			6.50 5.67	2.58	3.04 3.06	5.60 6.16			31
MAXIMUM	6.60		7.51		7.59		7.31		NR		NR		MAXIMUM
MINIMUM	1.68		1.68		1.71		1.91		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 10.2 - 12/26/55

ZERO OF GAGE: 1948 -2.94 USCGS
 1964 -3.65 USCGS
 1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

895380 OLD RIVER NEAR TRACY ROAD BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.49 5.42	2.64 3.86	NR	NR	2.88 3.30	4.60 5.71	2.71 4.00	4.53 6.07	3.32 4.35	5.95 6.87	3.93 4.95	6.60 7.03	1
2	5.24 5.59	2.56 3.48	2.68 2.61	4.43 5.03	2.98 3.79	4.89 6.00	2.71 4.16	5.44 6.39	3.33 4.27	6.02 6.84	4.04 4.70	6.65 6.90	2
3	5.22 5.82	2.74	2.63 2.95	4.50 5.62	3.09 3.91	5.04 5.87	3.13 4.31	5.85 6.51	3.54 4.46	6.34 7.00	3.92 4.46	6.59 6.84	3
4	3.57 2.95	5.29 5.98	2.84 3.41	4.76 5.74	3.22 4.44	5.36 6.71	3.02 4.30	5.67 6.49	3.80 4.40	6.55 6.97	4.18 4.57	7.02 6.69	4
5	3.27 2.75	4.89 5.26	2.85 3.45	4.72 5.67	3.42 4.26	5.36 6.34	2.92 3.98	5.54 6.27	3.86 4.24	6.67 6.76	4.21 4.43	6.60 7.21	5
6	2.76 2.84	4.69 5.35	NR	NR	2.91 4.36	5.31 6.50	2.85 3.89	5.42 6.07	3.63 4.22	6.47 6.90	4.28 4.42	6.60 7.24	6
7	2.69 3.08	4.66 5.96	NR	NR	3.27 4.57	5.54 6.67	2.88 3.80	5.31 5.67	4.15 4.38	6.98 6.64	4.48 4.23	6.83 6.81	7
8	3.04 3.33	4.89 6.20	NR	NR	3.36 4.52	5.59 6.37	2.76 3.34	5.16 5.51	4.05 4.14	7.19 6.23	4.48 4.26	7.03 6.72	8
9	2.41 3.44	5.04 6.42	NR	NR	3.08 4.13	5.09 5.81	2.85 4.25	5.73 6.18	4.01 3.81	7.27	4.70 4.16	7.12 6.33	9
10	2.60 3.58	4.85 6.42	NR	NR	2.68 4.02	4.84 5.33	3.36 3.66	5.95 5.47	6.05 7.37	4.66 4.21	4.66 4.10	7.14	10
11	2.64 3.85	4.61 6.35	NR	NR	2.58 3.93	5.02 5.36	2.92 3.42	5.76	6.35 8.30	5.09 4.61	6.48 7.21	5.10 4.08	11
12	2.56 4.17	4.49 5.86	NR	NR	2.58 3.60	5.05 4.87	5.28 6.27	3.33 3.44	6.69 7.92	5.31	6.45 7.07	5.24 3.78	12
13	2.39 4.28	4.81 5.81	NR	NR	2.39 3.22	5.00	5.22 6.26	3.67 3.41	4.47 5.71	7.08 8.40	6.35 7.13	5.13	13
14	2.47 4.39	4.43 5.54	NR	NR	4.48 4.87	2.49 2.57	5.44 6.40	4.17	4.74 5.60	7.13 8.49	3.74 4.62	6.12 6.84	14
15	2.51 4.24	4.56	NR	NR	3.98 5.03	2.51 2.54	3.42 4.77	5.50 7.29	4.92 5.43	7.22 8.31	3.33 4.08	6.06 6.71	15
16	5.21 4.88	2.36 3.85	NR	NR	4.12 5.33	2.94	3.82 5.24	6.27 8.72	4.72 5.19	7.21 8.03	3.32 3.89	6.08 6.80	16
17	5.08 4.98	2.30 3.39	5.53 6.37	3.60	2.56 3.38	4.32 5.86	4.81 5.36	7.23 8.30	4.73 5.10	7.25 7.81	3.54 4.04	6.46 6.80	17
18	4.98 5.21	2.54 3.21	3.66 3.76	5.53 6.25	2.89 3.76	4.68 6.23	4.35 6.28	6.78 9.48	4.70 4.99	7.26 7.60	3.71 3.77	6.56 6.50	18
19	5.01 5.50	2.89	3.51 3.88	5.45 6.17	2.99 4.01	5.09 6.56	5.51 5.78	7.23 8.64	4.70 4.82	7.35 7.16	3.63 3.64	6.54 6.44	19
20	3.22 3.06	5.07 5.70	3.32 3.90	4.98 6.54	3.12 4.00	5.20 6.55	4.78 5.10	6.85 7.90	4.54 4.64	7.31 6.87	3.95 4.06	7.10 6.64	20
21	3.00 2.99	4.88 5.33	3.17 4.02	5.40 6.64	3.08 4.04	5.48 6.58	4.44 4.96	6.73 7.04	4.51 4.56	7.38 6.61	4.02 3.69	6.77 6.41	21
22	2.57 3.00	4.45 5.09	3.11 4.18	5.38 6.58	3.27 4.37	5.77 6.70	4.17 4.52	6.57 6.59	4.60 4.36	7.38 6.12	4.17 3.51	6.83 5.86	22
23	2.43 3.16	4.34 5.77	3.17 4.14	5.30 6.32	3.33 4.00	5.51 6.11	3.72 4.03	6.29 5.96	4.53 4.07	6.77	4.07 3.37	6.50 5.62	23
24	2.49 3.69	4.74 6.12	3.12 4.07	5.32 6.17	3.17 3.82	5.40 5.44	3.56 3.95	6.30 5.62	5.91 7.09	5.03 4.45	4.24 3.30	6.39	24
25	2.58 3.64	4.87 6.18	2.89 3.72	5.03 5.55	2.78 3.33	4.97 4.82	3.68 3.86	6.52	6.01 7.10	5.00 3.82	5.59 6.45	4.56 3.46	25
26	2.62 4.05	5.05 6.41	2.59 3.58	4.87	2.56 3.19	5.05	5.32 6.53	3.76 3.36	5.81 6.61	5.01 3.76	5.62 6.20	4.72 3.31	26
27	2.76 4.06	5.21 6.08	5.16 5.16	2.62 3.53	4.73 5.50	2.85 3.41	4.83 6.39	3.70 2.94	6.09 6.82	4.95	5.70 6.18	4.71 3.30	27
28	2.57 4.04	4.91 5.79	5.08 5.40	2.79 3.32	4.97 6.19	3.52 3.32	4.84 6.08	3.95	4.07 5.26	6.61 7.05	5.72 6.09	4.49 2.97	28
29	2.51 3.67	4.71	4.81 5.25	2.85 2.92	4.81 5.83	3.48	2.96 4.84	5.64 6.77			5.33 5.56	3.80	29
30	NR	NR	4.54 5.43	3.03	2.85 3.60	4.56 5.59	3.53 4.97	6.22 6.98			2.76 3.56	5.34 5.57	30
31	NR	NR			2.64 3.85	4.50 5.86	3.49 4.75	6.13 6.85			2.85 3.51	5.63 5.71	31
MAXIMUM	NR		NR		6.71		9.48		8.49		7.24		MAXIMUM
MINIMUM	NR		NR		2.39		2.71		3.32		2.76		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 48 18, LONG. 121 26 55, SE SEC. 32, T1S, R5E
EIGHTY FEET ABOVE TRACY ROAD BRIDGE, 3.5 MILES NORTHWEST
OF TRACY.PERIOD OF RECORD: JUNE 1951 TO DEC. 1954
FEB 1955 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

B95380 OLD RIVER NEAR TRACY ROAD BRIDGE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	3.24 3.37	5.67 5.74	2.76 2.22	5.41 5.16	4.29 2.88	6.66 5.83	3.43 2.03	5.70 4.95	2.95 2.35	4.96 5.08	2.61 2.64	4.20 5.55	1
2	3.11 3.16	5.69 5.41	2.92 2.18	5.78 5.11	4.11 2.69	6.44 5.53	2.92 2.10	5.86 4.94	2.95 2.30	4.74	2.55 2.88	3.95 5.76	2
3	3.00 2.94	5.84 5.24	2.97 2.11	5.78 5.18	3.89 2.61	6.08 4.74	2.76 1.87	5.47 4.89	5.09 4.53	2.78 2.38	2.29 3.10	4.39 5.89	3
4	2.98 2.88	6.05 5.38	3.26 2.43	6.61 5.42	3.68 2.45	5.84 5.65	2.79 1.65	4.61	4.97 3.92	2.60 2.59	2.44 4.36	4.99 6.42	4
5	3.29 2.85	5.95 5.57	3.57 2.27	6.74 4.60	3.64 2.22	5.67	4.88 4.26	2.64 1.93	5.04 3.96	2.68 3.19	2.72 3.96	4.92 5.46	5
6	3.75 3.09	6.47 5.63	3.41 1.90	5.49	5.31 5.14	3.20 1.92	4.58 4.26	2.57 2.10	5.64 4.87	2.62 3.79	2.12 3.45	4.73	6
7	3.88 2.98	6.52	4.94 5.75	3.31 2.03	4.92 4.64	2.88 1.83	4.66 3.61	2.27 2.13	5.66 4.82	2.48 4.00	5.09 4.78	2.02 3.24	7
8	5.38 6.17	3.75 2.50	5.14 5.78	3.19 1.75	5.03 4.49	2.63 2.08	4.54 3.79	2.00 2.55	5.75 4.77	2.45 4.14	5.06 4.63	2.02 3.03	8
9	5.32 6.03	3.86 2.45	5.02 5.28	2.92 1.61	4.96 4.21	2.50 2.69	4.48 4.17	1.83 3.02	5.54 4.93	2.29 3.79	4.87 4.38	1.96 3.36	9
10	5.38 5.82	3.73 2.50	3.82 4.28	2.48 1.45	5.15 4.09	2.52 3.32	4.95 4.58	2.05 3.55	5.30 4.80	2.04 3.48	5.25 5.41	2.68	10
11	5.55 5.81	3.58 2.57	4.49 4.73	2.23 1.91	5.28 5.16	2.47 3.61	5.32 4.76	2.05 3.85	5.44 4.66	2.09 3.60	3.27 2.44	5.47 5.28	11
12	5.67 5.89	3.39 2.73	5.50 4.96	2.42 2.43	5.56 5.15	2.41 3.68	5.57 4.97	2.11 4.02	5.15 5.04	2.24	2.85 2.40	5.21 5.36	12
13	5.52 5.80	3.07	5.82 5.17	2.46 2.75	5.64 5.11	2.33	5.61 5.45	2.56	2.81 2.12	5.46 4.86	2.79 2.61	5.03 5.59	13
14	2.72 2.77	5.65 5.39	6.02 4.34	2.39	3.79 2.11	5.66 4.90	4.42 2.69	5.98 5.55	2.85 2.08	4.77 4.93	2.72 2.58	4.80 5.60	14
15	2.68 2.65	5.50 5.26	3.02 2.13	6.06 4.61	3.51 1.80	5.32 4.86	4.23 2.53	5.86 5.35	2.91 2.22	4.57 4.79	2.50 2.69	4.61 5.30	15
16	2.85 2.49	5.41 5.34	3.01 1.91	5.96 4.67	3.86 2.03	5.47 4.79	3.30 2.44	6.12 5.28	2.82 2.28	4.66 4.89	2.51 2.93	4.66 5.32	16
17	2.94 2.64	5.72 5.67	3.11 1.97	6.13 3.97	3.83 1.94	5.31 4.87	3.26 2.39	5.71 5.29	2.63 2.22	4.42 4.89	2.36 3.01	4.83 5.55	17
18	3.44 2.40	5.62 5.24	3.38 2.12	5.26 5.44	3.08 1.65	5.55 4.64	3.32 2.38	5.38 5.25	2.62 2.39	4.04 5.31	2.28 3.32	4.72 5.67	18
19	3.44 2.49	5.59 5.01	4.08 2.49	5.81 5.46	3.09 1.54	5.35 4.75	3.30 2.26	4.81 4.88	2.47 2.50	3.69 5.58	2.25 3.65	4.97	19
20	3.33 2.16	5.44 4.74	3.87 2.11	5.46	3.17 1.48	5.00	3.11 2.19	4.66 4.87	2.12 2.73	4.04 5.75	5.64 5.01	2.12 3.46	20
21	3.27 1.83	5.17	4.53 5.41	3.75 2.13	4.79 4.43	3.01 1.52	2.73 1.97	3.92	2.14 3.35	3.98 5.64	5.49 4.94	2.06 3.17	21
22	4.74 5.14	3.43 1.76	3.93 2.06	5.37	4.67 4.66	3.25 2.01	4.56 3.57	2.44 2.24	1.96 3.48	4.14	5.40 4.57	2.10 3.01	22
23	4.42 5.38	3.95 1.86	5.23 4.92	3.68 2.05	4.72 3.74	2.67 1.86	4.89 4.19	2.17 2.63	5.24 4.43	2.06 3.69	5.41 4.87	2.26 2.90	23
24	5.04 5.22	4.00 1.75	4.93 4.63	3.46 1.77	4.45 3.97	2.25 2.23	5.16 4.00	1.87 2.88	5.36 4.59	1.93 3.22	5.26 5.51	2.35	24
25	4.97 4.93	3.73 1.71	4.64 4.51	3.07 2.07	4.05 4.11	2.07 2.49	4.73 4.26	1.70 3.24	5.20 4.34	2.06 3.02	2.85 2.50	5.20 5.37	25
26	5.06 4.72	3.40 1.86	4.73 3.97	2.76 2.14	4.91 4.32	1.85 2.96	5.34 4.59	1.86 3.88	4.96 5.06	2.21	2.42 2.28	4.91 5.13	26
27	5.29 5.23	3.25 2.27	4.74 3.70	2.43 2.16	5.19 4.57	1.93 3.42	5.79 5.23	2.45 3.90	2.75 2.41	5.65 5.03	2.23 2.40	4.58 5.06	27
28	5.50 4.78	2.89 2.58	4.39 4.13	2.03 2.49	5.98 5.08	2.31 3.82	6.24 4.86	2.58	2.56 2.08	4.88 5.14	2.20 2.60	4.43 5.22	28
29	5.06 4.63	2.52 2.57	5.02 4.94	2.12 3.16	6.16 5.06	2.28	3.61 2.48	5.98 4.17	2.60 2.18	4.41 5.26	2.28 2.87	4.24 5.26	29
30	5.17 5.09	2.61	5.66 5.69	2.64 4.09	3.65 2.21	5.73 5.01	3.28 2.34	5.47 5.00	2.78 2.74	4.78 5.44	2.42 3.42	4.36 5.10	30
31			6.45 5.88	2.91			3.08 2.29	5.36 4.96	2.79 2.73	4.69 5.37			31
MAXIMUM	6.52		6.74		6.66		6.24		5.75		6.42		MAXIMUM
MINIMUM	1.71		1.45		1.48		1.65		1.93		1.96		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 13.2 - 12/29/55

ZERO OF GAGE: 1958 -4.44
1964 -4.47
1964 TO DATE -3.00 USCGS

TABLE A-12 (CONTINUED)

DAILY TIDES

B95420 TOM PAINE SLOUGH ABOVE MOUTH
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.52	2.74	4.71	2.57	3.06	4.62	2.88	4.56	3.55	5.99	4.24	6.67	1
	5.43	3.90	4.98		3.43	5.73	4.08	6.07	4.50	6.89	5.17	7.12	
2	5.26	2.64	2.75	4.44	3.13	4.90	2.88	5.43	3.58	6.06	4.39	6.71	2
	5.58	3.53	2.66	5.03	3.89	6.02	4.23	6.39	4.41	6.90	4.98	6.97	
3	5.23	2.82	2.69	4.51	3.26	5.04	3.28	5.84	3.72	6.38	4.27	6.66	3
	5.83	3.67	2.99	5.58	3.99	5.86	4.40	6.51	4.58	7.03	4.73	6.91	
4	5.33	3.03	2.90	4.78	3.38	5.38	3.19	5.67	4.00	6.56	4.48	7.08	4
	5.99		3.41	5.74	4.55	6.73	4.39	6.50	4.54	7.00	4.84	6.77	
5	3.34	4.92	2.90	4.73	3.57	5.36	3.10	5.53	4.05	6.70	4.52	6.67	5
	2.83	5.27	3.47	5.66	4.35	6.34	4.06	6.28	4.39	6.77	4.71	7.27	
6	2.83	4.73	2.57	4.42	3.06	5.32	3.03	5.39	3.80	6.54	4.59	6.66	6
	2.90	5.36	3.48	5.63	4.40	6.51	3.99	6.08	4.36	6.92	4.68	7.29	
7	2.76	4.71	2.69	4.73	3.42	5.55	3.04	5.30	4.31	7.00	4.75	6.90	7
	3.13	5.96	3.88	6.12	4.64	6.68	3.89	5.69	4.52	6.67	4.51	6.87	
8	3.10	4.94	2.83	4.95	3.50	5.57	2.92	5.17	4.24	7.22	4.74	7.10	8
	3.37	6.19	3.90	5.67	4.60	6.38	3.46	5.48	4.32	6.27	4.54	6.79	
9	2.50	5.05	2.58	4.80	3.25	5.11	3.00	5.66	4.19	7.30	4.96	7.20	9
	3.44	6.42	3.89	5.60	4.21	5.82	4.33	6.19	4.01		4.51	6.42	
10	2.67	4.89	2.65	4.83	2.85	4.86	3.50	5.96	6.10	4.79	4.97	7.22	10
	3.59	6.43	4.23	5.67	4.10	5.35	3.78	5.48	7.39	4.38	4.51		
11	2.69	4.67	2.97	5.37	2.76	5.04	3.08	5.77	6.38	5.21	6.60	5.37	11
	3.85	6.34	4.73	5.97	4.01	5.37	3.57		8.27	4.80	7.31	4.47	
12	2.62	4.55	2.77	4.81	2.76	5.06	5.28	3.48	6.73	5.46	6.55	5.49	12
	4.16	5.88	4.00	5.06	3.71	4.87	6.29	3.62	7.93		7.16	4.20	
13	2.45	4.85	2.44	4.65	2.56	5.01	5.23	3.81	4.77	7.15	6.45	5.40	13
	4.26	5.83	3.92		3.34		6.28	3.62	5.95	8.48	7.22		
14	2.52	4.49	5.03	2.87	4.50	2.65	5.46	4.32	5.14	7.25	4.16	6.21	14
	4.39	5.56	5.78	4.01	4.89	2.73	6.42		5.91	8.59	4.91	6.89	
15	2.53	4.63	5.17	2.91	4.02	2.66	3.64	5.52	5.32	7.34	3.76	6.12	15
	4.23		5.46	3.72	5.03	2.71	4.86	7.31	5.76	8.39	4.38	6.77	
16	5.24	2.37	5.44	3.46	4.14	3.05	4.00	6.27	5.15	7.32	3.71	6.14	16
	4.93	3.81	6.08	3.82	5.35		5.31	8.67	5.58	8.12	4.20	6.87	
17	5.09	2.71	5.59	3.72	2.73	4.36	4.96	7.24	5.20	7.38	3.91	6.51	17
	5.01	3.39	6.38		3.48	5.86	5.46	8.33	5.53	7.91	4.31	6.86	
18	4.99	2.57	3.80	5.55	3.05	4.72	4.55	6.85	5.20	7.40	4.02	6.62	18
	5.22	3.23	3.89	6.27	3.84	6.24	6.39	9.53	5.45	7.73	4.07	6.56	
19	5.04	2.93	3.67	5.47	3.14	5.09	5.71	7.30	5.20	7.47	3.97	6.61	19
	5.51		4.00	6.20	4.10	6.58	5.96	8.69	5.28	7.28	3.97	6.49	
20	3.25	5.10	3.49	5.01	3.27	5.23	5.01	6.94	4.99	7.43	4.24	7.14	20
	3.09	5.69	4.01	6.55	4.09	6.56	5.28	7.92	5.08	6.98	4.37	6.68	
21	3.05	4.90	3.35	5.41	3.25	5.50	4.69	6.78	4.93	7.47	4.32	6.81	21
	3.02	5.35	4.12	6.65	4.14	6.59	5.15	7.10	4.96	6.71	3.99	6.48	
22	2.62	4.47	3.27	5.42	3.42	5.78	4.42	6.63	4.98	7.46	4.47	6.89	22
	3.04	5.13	4.27	6.61	4.47	6.71	4.73	6.64	4.76	6.26	3.90	5.89	
23	2.51	4.39	3.35	5.30	3.49	5.51	3.99	6.34	4.89	6.88	4.39	6.56	23
	3.21	5.78	4.24	6.33	4.10	6.13	4.26	6.01	4.49		3.78	5.72	
24	2.58	4.80	3.29	5.33	3.34	5.43	3.80	6.33	6.05	5.30	4.55	6.46	24
	3.75	6.13	4.16	6.20	3.94	5.46	4.18	5.68	7.15	4.81	3.74		
25	2.68	4.91	3.08	5.06	2.97	4.99	3.90	6.59	6.13	5.27	5.70	4.83	25
	3.68	6.19	3.83	5.56	3.45	4.82	4.08		7.17	4.21	6.52	3.88	
26	2.70	5.08	2.79	4.89	2.74	5.06	5.37	3.97	5.88	5.22	5.75	4.98	26
	4.08	6.42	3.70		3.33		6.56	3.60	6.69	4.11	6.30	3.74	
27	2.86	5.24	5.17	2.81	4.74	3.01	4.89	3.91	6.16	5.14	5.81	4.98	27
	4.10	6.09	5.17	3.67	5.50	3.55	6.44	3.19	6.90		6.27	3.73	
28	2.65	4.94	5.09	2.98	4.99	3.65	4.89	4.11	4.36	6.66	5.82	4.79	28
	4.08		5.41	3.48	6.24	3.46	6.13		5.43	7.11	6.21	3.45	
29	5.80	2.63	4.83	3.02	4.80	3.58	3.24	5.69			5.42	4.16	29
	4.79	3.70	5.26	3.09	5.83		4.92	6.80			5.64		
30	4.81	2.18	4.57	3.17	3.02	4.60	3.73	6.25			3.24	5.42	30
	4.69	2.97	5.44		3.69	5.60	5.07	7.02			3.93	5.63	
31	5.35	2.41			2.81	4.53	3.68	6.18			3.32	5.70	31
	4.98	2.89			3.93	5.85	4.87	6.87			3.88	5.81	
MAXIMUM	6.43		6.65		6.73		9.53		8.59		7.31		MAXIMUM
MINIMUM	2.18		2.44		2.56		2.88		3.55		3.24		MINIMUM

LOCATION: LAT. 37 47 27, LONG. 121 25 03, NE SEC 4, T2S, R5E,
0.1 MILE EAST OF MOUTH OF SUGAR CUT, 2.2 MILES ABOVE
MOUTH, 2.6 MILES NORTH OF TRACY. STATION WAS DISCONTINUED
9/30/66 AND REACTIVATED 2/26/68.

PERIOD OF RECORD: JUNE 51 TO OCT 53 (IRRIGATION
SEASON ONLY)
APR 54 TO SEP 66
MAR 58 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

895420 TOM PAINE SLOUGH ABOVE MOUTH
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	3.66 3.76	5.79 5.81	2.99 2.51	5.44 5.19	4.50 3.21	6.71 5.85	3.56 2.25	5.70 4.95	3.11 2.54	5.00 5.12	2.79 2.78	4.25 5.50	1
2	3.51 3.58	5.72 5.47	3.14 2.47	5.81 5.13	4.32 3.04	6.47 5.59	3.06 2.31	5.83 4.93	3.13 2.48	4.79 5.10	2.73 3.01	4.00 5.78	2
3	3.42 3.38	5.89 5.29	3.22 2.40	5.79 5.20	4.11 2.96	6.13 4.88	2.92 2.07	5.45 4.88	2.95 2.56	4.58 5.01	2.47 3.23	4.38	3
4	3.37 3.32	6.11 5.43	3.48 2.72	6.64 5.46	3.89 2.76	5.87 5.69	2.95 1.86	4.64	2.79 2.75	3.98	5.89 5.05	2.63 4.40	4
5	3.65 3.26	6.01 5.64	3.76 2.57	6.76 4.66	3.87 2.58	5.72	4.87 4.30	2.79 2.13	5.07 4.02	2.85 3.37	6.27 4.93	2.91 4.05	5
6	4.06 3.49	6.56 5.69	3.60 2.20	5.55	5.33 5.18	3.43 2.28	4.63 4.31	2.75 2.32	5.68 4.89	2.78 3.89	5.57 4.72	2.30 3.56	6
7	4.17 3.32	6.55	4.97 5.71	3.48 2.32	5.00 4.69	3.14 2.17	4.70 3.67	2.44 2.31	5.71 4.84	2.67 4.09	5.11 4.78	2.22 3.37	7
8	5.42 6.20	4.02 2.89	5.15 5.78	3.38 2.03	5.06 4.55	2.89 2.38	4.59 3.79	2.20 2.70	5.80 4.82	2.63 4.24	5.08 4.63	2.21 3.16	8
9	5.37 6.07	4.09 2.83	5.03 5.27	3.09 1.91	4.99 4.28	2.76 2.92	4.55 4.18	2.02 3.16	5.60 4.96	2.46 3.91	4.91 4.43	2.18 3.49	9
10	5.41 5.85	3.97 2.86	3.87 4.31	2.67 1.75	5.20 4.17	2.82 3.48	4.99 4.59	2.26 3.67	5.35 4.81	2.23 3.62	5.31 5.44	2.84	10
11	5.55 5.81	3.81 2.90	4.53 4.73	2.46 2.15	5.33 5.20	2.75 3.81	5.36 4.76	2.25 3.94	5.45 4.67	2.28 3.73	3.39 2.62	5.52 5.28	11
12	5.68 5.90	3.65 3.03	5.49 4.97	2.64 2.65	5.61 5.19	2.73 3.89	5.28 4.97	2.31 4.12	5.22 5.04	2.44	3.02 2.58	5.20 5.37	12
13	5.56 5.81	3.32	5.81 5.17	2.67 2.95	5.71 5.12	2.62	5.62 5.46	2.75	3.01 2.32	5.45 4.85	2.96 2.78	5.06 5.63	13
14	3.01 3.05	5.64 5.41	6.04 4.38	2.61 3.19	3.97 2.42	5.70 4.93	4.52 2.88	6.03 5.56	3.04 2.26	4.79 4.92	2.91 2.75	4.84 5.61	14
15	2.96 2.94	5.54 5.26	6.05 4.62	2.37	3.68 2.08	5.36 4.88	4.34 2.73	5.86 5.36	3.07 2.40	4.61 4.81	2.68 2.84	4.67 5.33	15
16	3.13 2.80	5.43 5.34	3.18 2.14	5.95 4.66	3.99 2.31	5.51 4.82	3.47 2.65	6.13 5.28	2.98 2.46	4.70 4.91	2.69 3.07	4.71 5.36	16
17	3.20 2.94	5.77 5.70	3.28 2.24	6.12 4.04	3.95 2.17	5.36 4.88	3.44 2.56	5.73 5.31	2.81 2.40	4.48 4.97	2.58 3.15	4.82 5.59	17
18	3.67 2.68	5.65 5.25	3.44 2.41	5.30 5.45	3.25 1.92	5.56 4.66	3.47 2.54	5.33 5.27	2.79 2.55	4.11 5.30	2.49 3.44	4.76 5.72	18
19	3.65 2.77	5.57 5.02	4.25 2.84	5.85 5.49	3.19 1.80	5.34 4.75	3.44 2.44	4.86 4.95	2.65 2.64	3.77 5.57	2.49 3.77	4.99	19
20	3.52 2.44	5.48 4.77	4.07 2.46	5.54	3.31 1.73	4.99	3.28 2.39	4.71 4.90	2.30 2.86	4.08 5.72	5.67 5.03	2.33 3.60	20
21	3.43 2.13	5.19 4.74	4.60 5.46	3.92 2.49	4.75 4.47	3.15 1.76	2.91 2.15	3.98	2.35 3.46	4.02 5.62	5.53 4.95	2.28 3.33	21
22	3.57 2.04	5.16	5.42 5.41	4.12 2.45	4.67 4.70	3.41 2.22	4.61 3.64	2.62 2.42	2.16 3.61	4.23	5.44 4.62	2.31 3.16	22
23	4.46 5.40	4.06 2.17	5.26 4.96	3.83 2.46	4.78 3.81	2.85 2.07	4.97 4.22	2.38 2.80	5.28 4.48	2.27 3.79	5.41 4.92	2.44 3.05	23
24	5.06 5.19	4.11 2.03	4.96 4.68	3.69 2.14	4.50 3.95	2.44 2.40	5.19 4.05	2.09 3.02	5.40 4.63	2.13 3.38	5.30 5.54	2.55	24
25	4.99 4.94	3.85 2.00	4.69 4.56	3.29 2.38	4.62 4.17	2.27 2.66	4.76 4.26	1.91 3.34	5.23 4.39	2.26 3.16	3.03 2.68	5.23 5.39	25
26	5.07 4.74	3.54 2.09	4.78 4.05	3.00 2.43	4.94 4.33	2.04 3.09	5.38 4.60	2.06 3.96	5.00 5.04	2.40	2.61 2.47	4.94 5.17	26
27	5.30 5.20	3.38 2.52	4.79 3.77	2.72 2.44	5.19 4.59	2.13 3.54	5.82 5.23	2.64 4.02	2.94 2.59	5.62 5.01	2.42 2.57	4.63 5.11	27
28	5.47 4.82	3.12 2.82	4.45 4.21	2.36 2.78	5.90 5.09	2.49 3.98	6.27 4.91	2.74	2.74 2.28	4.86 5.13	2.40 2.74	4.48 5.25	28
29	5.09 4.67	2.77 2.81	5.07 4.97	2.46 3.40	6.19 5.08	2.52	3.75 2.67	6.01 4.22	2.78 2.36	4.46 5.22	2.46 2.99	4.30 5.31	29
30	5.21 5.12	2.86	5.72 5.71	2.93 4.28	3.78 2.44	5.77 5.02	3.40 2.52	5.50 5.00	2.96 2.90	4.82 5.45	2.60 3.54	4.43 5.17	30
31			6.49 5.91	3.21			3.23 2.47	5.39 4.96	2.96 2.94	4.76 5.39			31
MAXIMUM	6.56		6.76		6.71		6.27		5.80		6.37		MAXIMUM
MINIMUM	2.00		1.75		1.73		1.86		2.13		2.18		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 14.6 - 12/29/55

ZERO OF GAGE: 1955 -4.22 USCGS
1964 -4.43 USCGS
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

895340 OLD RIVER AT CLIFTON COURT FERRY
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.24 4.97	2.57 3.89	4.43 4.87	0.89 1.19	4.40 5.42	3.17 2.74	2.50 3.97	4.36 5.86	3.06 4.26	5.68 6.59	6.31 6.78	4.73	1
2	4.96 5.23	2.57 3.54	3.86 4.91	1.08	4.68 5.74	3.69	2.52 4.15	5.20 6.18	3.05 4.15	5.73 6.67	3.64 4.42	6.32 6.71	2
3	4.79 5.42	2.74 3.61	1.08 1.77	4.04 5.78	2.86 3.83	4.85 5.64	2.96 4.27	5.62 6.30	3.28 4.36	6.06 6.78	3.55 4.19	6.27 6.60	3
4	4.88 5.58	2.92	1.46 2.58	4.51 6.14	3.03 4.35	5.11 6.39	2.83 4.26	5.42 6.28	3.58 4.31	6.31 6.76	3.85 4.31	6.69 6.47	4
5	3.27 2.74	4.56 5.01	1.41 2.67	4.46 5.96	3.17 4.18	5.16 6.09	2.73 3.95	5.30 6.12	3.65 4.11	6.39 6.40	3.89 4.15	6.41 6.88	5
6	2.74 2.84	4.51 5.09	0.81 3.61	3.88 5.39	2.66 4.34	5.15 6.27	2.65 3.84	5.13 5.86	3.45 4.13	6.34 6.63	3.96 4.14	6.42 6.89	6
7	2.73 3.11	4.45 5.53	2.72 4.00	4.55 5.87	3.08 4.55	5.38 6.44	2.69 3.76	5.15 5.48	4.01 4.22	6.80 6.35	4.19 3.94	6.61 6.48	7
8	3.05 3.38	4.56 5.79	2.86 3.99	4.73 5.49	3.17 4.50	5.39 6.13	2.59 3.36	5.13 5.37	3.86 3.93	6.89 5.94	4.22 3.92	6.78 6.39	8
9	2.40 3.50	4.69 6.05	2.50 4.01	4.57 5.37	2.88 4.10	4.92 5.61	2.75 4.25	5.59 6.01	3.85 3.63	6.98	4.45 3.78	6.89 6.00	9
10	2.61 3.63	4.54 6.05	2.58 4.33	4.68 5.43	2.47 4.00	4.66 5.13	3.23 3.57	5.79 5.23	5.81 7.20	4.59 4.03	4.36 3.62	6.91	10
11	2.60 3.88	4.36 5.99	2.81 4.74	5.01 5.67	2.40 3.90	4.85 5.18	2.78 3.31	5.60 5.03	6.11 8.00	5.03 4.44	6.15 6.96	4.81 3.59	11
12	2.50 4.20	4.32 5.56	2.61 4.02	4.54 4.77	2.40 3.53	4.82 4.68	3.21 3.27	6.06	6.42 7.67	5.20 4.12	6.12 6.79	4.98 3.30	12
13	2.32 4.27	4.60 5.52	2.31 4.07	4.57	2.22 3.16	4.78 4.37	4.97 6.06	3.59 3.21	6.77 8.09	5.49	6.03 6.83	4.86 3.24	13
14	NR	NR	4.84 5.51	2.78 3.87	2.36 2.44	4.66	5.17 6.19	4.08 3.17	4.29 5.28	6.79 8.14	5.80 6.47	4.29 2.84	14
15	5.37 4.33	2.47 4.22	4.99 5.17	2.65 3.50	3.86 4.80	2.42 2.39	5.36 7.07	4.74	4.45 5.04	6.85 7.96	5.74 6.39	3.80	15
16	5.02 4.72	2.28 3.85	5.27 5.77	3.18 3.54	4.00 5.10	2.86 2.38	3.72 5.28	6.13 8.39	4.20 4.76	6.84 7.66	2.87 3.60	5.76 6.45	16
17	4.91 4.75	2.23 3.39	5.32 6.07	3.43 3.45	4.22 5.63	3.35 2.72	4.67 5.34	6.96 8.04	4.16 4.60	6.87 7.43	3.18 3.74	6.12 6.47	17
18	4.78 4.95	2.49 3.18	5.33 5.95	3.60	4.67 6.02	3.73	4.28 6.23	6.70 9.16	4.09 4.46	6.87 7.22	3.38 3.47	6.23 6.17	18
19	4.82 5.22	2.85 3.17	3.28 3.72	5.21 5.87	2.80 3.99	4.93 6.32	5.28 5.63	7.01 8.31	4.10 4.27	6.97 6.79	3.31 3.34	6.22 6.15	19
20	4.85 5.43	3.06	3.06 3.76	4.75 6.23	2.92 3.95	5.04 6.31	4.56 4.95	6.67 7.58	3.99 4.15	6.96 6.51	3.62 3.68	6.76 6.32	20
21	2.98 3.00	4.67 5.01	2.89 3.91	5.14 6.34	2.87 4.00	5.28 6.34	4.18 4.79	6.52 6.73	4.03 4.09	7.03 6.29	3.74 3.24	6.52 6.08	21
22	2.55 3.01	4.22 4.71	2.82 4.07	5.15 6.28	3.04 4.29	5.58 6.45	3.93 4.34	6.39 6.30	4.22 3.95	7.07 5.82	3.87 3.08	6.49 5.54	22
23	2.40 3.20	4.09 5.48	2.89 4.04	5.08 6.04	3.12 3.94	5.32 5.89	3.47 3.84	6.10 5.67	4.19 3.65	6.54	3.77 2.96	6.14 5.34	23
24	2.43 3.71	4.49 5.84	2.84 3.95	5.06 5.89	2.96 3.73	5.18 5.21	3.35 3.77	6.13 5.36	5.68 6.96	4.81 4.11	3.96 2.87	6.13	24
25	2.57 3.74	4.65 5.86	2.59 3.59	4.80 5.30	2.58 3.24	4.75 4.62	3.53 3.69	6.37	5.75 6.88	4.77 3.43	5.30 6.14	4.31 3.02	25
26	2.57 4.12	4.80 6.11	2.30 3.45	4.61 4.89	2.41 3.09	4.82 4.57	5.07 6.39	3.63 3.17	5.54 6.43	4.80 3.41	5.37 5.99	4.49 2.85	26
27	2.73 4.14	4.95 5.80	2.37 3.39	4.89	2.75 3.32	5.28	4.60 6.15	3.61 2.72	5.83 6.67	4.81 3.76	5.45 5.89	4.47 2.79	27
28	2.53 4.09	4.63	4.86 5.12	2.58 3.15	4.81 5.88	3.42 3.14	4.62 5.95	3.90 2.76	6.35 6.83	5.11 3.61	5.44 5.72	4.13 2.42	28
29	5.53 4.37	2.49 3.65	4.64 4.98	2.67 2.71	4.56 5.61	3.40 2.69	5.42 6.65	4.81 3.34			5.04 5.25	3.47 2.15	29
30	4.53 4.34	2.09 2.96	4.41 5.16	2.87 2.66	4.44 5.37	3.58 2.47	5.97 6.80	4.94			5.04 5.25	3.19 2.32	30
31	4.96 4.66	2.37 1.52			4.37 5.63	3.83	3.26 4.68	5.89 6.67			5.31 5.33	3.03	31
MAXIMUM	NR		6.34		6.45		9.16		8.14		6.96		MAXIMUM
MINIMUM	NR		0.81		2.22		2.50		3.05		2.15		MINIMUM

LOCATION: LAT. 37 49 28, LONG. 121 33 05, SE SEC. 20, T1S, R4E
APPROXIMATELY 2,000 FEET BELOW JUNCTION WITH GRANT LINE
CANAL. MAXIMUM GAGE HEIGHT LISTED DOES NOT INDICATE
MAXIMUM DISCHARGE.

PERIOD OF RECORD: DEC. 1948 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

895340 OLD RIVER AT CLIFTON COURT FERRY
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.76	5.42	5.22	2.24	6.41	2.69	3.47	5.47	2.99	4.79	2.76	3.98	1
	2.87	5.37	4.73		5.49		1.98	4.76	2.37	4.93	2.83	5.13	
2	2.59	5.22	3.03	5.38	4.14	6.24	2.95	5.62	3.00	4.58	2.72	3.75	2
	2.65	5.03	2.20	4.70	2.55	5.25	2.05	4.76	2.32	4.94	3.09	5.34	
3	2.53	5.46	3.10	5.44	3.88	5.83	2.80	5.28	2.81	4.39	2.43	3.98	3
	2.45	4.90	2.09	4.71	2.44	4.67	1.84	4.72	2.42	4.81	3.31	5.68	
4	2.52	5.66	3.38	6.16	3.73	5.67	2.87	4.45	2.63	3.81	2.50	4.70	4
	2.33	5.01	2.36	4.98	2.34	5.31	1.62	4.71	2.67		4.44	6.12	
5	2.90	5.75	3.98	6.27	3.69	5.45	2.66	4.11	4.88	2.70	2.72	4.71	5
	2.35	5.25	2.23	4.36	2.07		1.83		3.90	3.32	4.06		
6	3.43	6.30	3.61	5.16	4.98	3.23	4.41	2.55	5.52	2.62	5.40	2.13	6
	2.62	5.30	1.84		4.94	1.84	4.11	2.05	4.68	3.89	4.51	3.55	
7	3.59	6.26	4.53	3.51	4.75	2.92	4.51	2.25	5.58	2.50	4.99	2.05	7
	2.53	5.09	5.36	1.96	4.48	1.78	3.52	2.13	4.60	4.10	4.57	3.33	
8	3.52	5.98	4.71	3.46	4.80	2.64	4.37	2.07	5.58	2.40	4.88	2.05	8
	2.08		5.33	1.82	4.31	2.07	3.59	2.64	4.65	4.22	4.38	3.13	
9	5.04	3.67	4.60	3.12	4.76	2.51	4.36	1.88	5.37	2.28	4.68	2.01	9
	5.87	2.05	4.87	1.71	3.97	2.71	4.02	3.14	4.76	3.89	4.18	3.47	
10	5.09	3.55	3.60	2.69	4.90	2.48	4.78	2.10	5.15	2.06	5.03	2.74	10
	5.64	2.11	4.05	1.68	3.89	3.33	4.43	3.64	4.64	3.58	5.15		
11	5.26	3.39	4.29	2.47	5.00	2.53	5.13	2.08	5.23	2.09	3.34	5.25	11
	5.59	2.19	4.34	2.13	4.74	3.70	4.60	3.97	4.41	3.67	2.54	4.97	
12	5.37	3.13	5.09	2.63	5.27	2.45	5.35	2.17	3.82	4.97	2.96	4.98	12
	5.56	2.37	4.54	2.66	4.78	3.78	4.82	4.13	2.26	4.82	2.53	5.03	
13	5.32	2.81	5.40	2.58	5.37	2.21	5.53	2.53	2.79	5.18	2.86	4.80	13
	5.45	2.43	4.79	2.75	4.74	3.84	5.29	4.52	2.17	4.67	2.69	5.24	
14	5.34	2.50	5.79	2.32	5.40	2.07	5.82	2.70	2.93	4.52	2.78	4.63	14
	5.05	2.34	4.22	3.05	4.55		5.39		2.13	4.73	2.73	5.27	
15	5.25	2.33	5.84	2.10	3.63	5.12	4.30	5.67	2.98	4.46	2.60	4.40	15
	4.89		4.34	3.09	1.76	4.51	2.46	5.18	2.33	4.63	2.83	5.03	
16	2.61	5.22	5.75	1.87	4.02	5.22	3.23	5.92	2.92	4.46	2.56	4.45	16
	2.19	5.00	4.39		1.99	4.55	2.43	5.12	2.32	4.71	3.05	5.02	
17	2.70	5.51	3.19	5.89	4.00	5.12	3.23	5.46	2.72	4.26	2.45	4.44	17
	2.30	5.38	1.87	3.72	1.97	4.50	2.35	5.13	2.30	4.73	3.17	5.33	
18	3.30	5.43	3.48	5.11	3.17	5.11	3.32	5.10	2.70	3.89	2.39	4.45	18
	2.06	4.92	1.99	5.16	1.69	4.26	2.33	5.08	2.52	5.01	3.52		
19	3.32	5.38	4.07	5.61	3.19	4.95	3.29	4.66	2.55	3.55	5.47	2.34	19
	2.18	4.72	2.17	5.13	1.63	4.37	2.20	4.71	2.66	5.27	4.60	3.83	
20	3.25	5.20	3.82	5.23	3.30	4.59	3.08	4.47	2.22	3.84	5.47	2.13	20
	1.88	4.45	1.85		1.54	4.40	2.09	4.70	2.90	5.42	4.72	3.57	
21	3.25	4.99	4.33	3.78	3.16	4.24	2.72	3.84	2.17	3.77	5.29	2.04	21
	1.63	4.43	5.24	1.95	1.62		1.96		3.49	5.24	4.62	3.23	
22	3.47	4.94	5.07	3.92	4.35	3.45	4.48	2.47	1.96	3.95	5.16	2.10	22
	1.60		5.15	1.81	4.45	2.13	3.46	2.23	3.57		4.44	3.12	
23	4.28	3.96	4.93	3.63	4.52	2.82	4.79	2.20	5.02	2.12	5.17	2.22	23
	5.16	1.73	4.67	1.79	3.64	2.01	3.98	2.66	4.24	3.83	4.68	2.89	
24	4.80	4.07	4.73	3.46	4.28	2.31	5.04	1.88	5.15	2.05	5.05	2.37	24
	5.06	1.68	4.48	1.63	3.70	2.30	3.82	2.98	4.32	3.39	5.16		
25	4.72	3.87	4.51	3.05	4.36	2.10	4.62	1.69	4.99	2.20	2.90	4.99	25
	4.77	1.72	4.32	1.88	3.91	2.54	4.09	3.35	4.13	3.20	2.53	5.01	
26	4.80	3.54	4.58	2.73	4.73	1.84	5.17	1.85	4.70	2.39	2.49	4.68	26
	4.55	1.90	3.82	2.08	4.12	3.03	4.44	3.99	4.66		2.37	4.83	
27	4.98	3.36	4.54	2.39	5.01	1.92	5.62	2.50	2.84	5.29	2.29	4.40	27
	4.76	2.24	3.55	2.13	4.38	3.51	5.06	4.01	2.48	4.76	2.49	4.85	
28	4.92	2.90	4.17	1.94	5.70	2.25	6.01	2.59	2.63	4.54	2.26	4.21	28
	4.51	2.55	3.98	2.47	4.87	3.88	4.73	3.70	2.18	4.89	2.75	4.98	
29	4.95	2.61	4.79	2.04	5.92	2.24	5.79	2.48	2.70	4.22	2.40	4.05	29
	4.45	2.63	4.59	3.19	4.84	3.71	4.02		2.31	4.93	3.03	5.02	
30	4.98	2.67	5.43	2.56	5.57	2.08	3.36	5.29	2.94	4.58	2.52	4.15	30
	4.80	2.86	5.35	4.16	4.83		2.37	4.77	2.90	5.17	3.56	4.84	
31			6.18	2.85			3.14	5.16	2.87	4.45			31
			5.52	4.34			2.32	4.78	2.82	5.10			
MAXIMUM	6.30		6.27		6.41		6.01		5.58		6.12		MAXIMUM
MINIMUM	1.60		1.63		1.54		1.62		1.96		2.01		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 9.7 - 12/26/55

ZERO OF GAGE: 1948 TO 1952 -2.25 USCGS
1952 -2.12 USCGS
1964 -2.56 USCGS
1964 TO DATE -3.00 USCGS

TABLE R-12 (CONTINUED)
DAILY TIDES
895278 ITALIAN SLOUGH NEAR MOUTH
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.85 2.38	-0.36 0.95	1.79 2.06	-0.45 -0.30	NR	NR	1.59 3.06	1.04	0.08 1.34	2.69 3.74	3.29 3.88	1.80	1
2	2.77 2.54	-0.35 0.62	1.55 2.12	-0.35 -0.36	NR	NR	-0.44 1.24	2.25 3.40	0.07 1.22	2.75 3.71	0.64 1.46	3.29 3.80	2
3	2.63 2.74	-0.19 0.76	1.66 2.58	0.01	NR	NR	-0.02 1.35	2.67 3.50	0.27 1.41	3.06 3.90	0.56 1.24	3.26 3.75	3
4	2.62 2.90	-0.03 0.35	-0.19 0.45	1.91 2.77	NR	NR	-0.14 1.33	2.47 3.48	0.59 1.35	3.33 3.92	0.87 1.35	3.68 3.70	4
5	2.29 2.41	-0.18	-0.21 0.50	1.84 2.67	NR	NR	-0.24 1.03	2.36 3.25	0.66 1.15	3.39 3.58	0.91 1.18	3.54 3.87	5
6	-0.18 -0.08	2.02 2.50	-0.52 0.56	1.55 2.72	NR	NR	-0.32 0.92	2.32 3.06	0.46 1.20	3.42 3.66	0.98 1.17	3.63 3.89	6
7	-0.23 0.16	2.05 2.97	-0.39 0.93	1.78 3.15	NR	NR	-0.28 0.82	2.26 2.75	1.05 1.26	3.88 3.34	1.23 0.97	3.78 3.48	7
8	0.12 0.48	2.20 3.13	-0.26 0.90	1.84 2.74	NR	NR	-0.38 0.48	2.17 2.49	0.89 0.95	3.90 2.93	1.26 0.95	3.95 3.37	8
9	-0.45 0.57	2.01 3.36	-0.65 0.96	1.67 2.67	-0.09 1.19	2.14 2.85	-0.19 1.37	2.63 3.15	0.91 0.69	4.00	1.53 0.79	4.04 2.97	9
10	-0.23 0.75	1.84 3.36	-0.57 1.36	1.88 2.79	-0.50 1.09	1.92 2.42	0.28 0.69	2.95 2.30	2.84 4.37	1.69 1.09	1.40 0.60	3.98 3.14	10
11	-0.26 0.99	1.82 3.28	-0.26 1.78	2.41 2.97	-0.57 0.99	2.08 2.38	-0.12 0.42	2.87 2.10	3.12 5.07	2.14 1.49	1.85 0.56	4.09	11
12	-0.35 1.32	1.69 3.01	-0.48 1.08	1.90 2.15	-0.57 0.60	2.09 1.85	0.33 0.37	3.30	3.43 4.66	2.31 1.15	3.09 3.90	2.02 0.29	12
13	-0.54 1.39	1.83 3.03	-0.77 1.10	1.86 2.24	-0.74 0.23	2.07 1.51	2.02 3.37	0.70 0.29	3.74 5.04	2.54 1.27	3.02 3.88	1.92 0.18	13
14	-0.48 1.47	1.74 2.80	-0.29 1.04	2.80 2.26	-0.58 -0.51	1.99	2.21 3.55	1.19 0.24	3.75 5.09	2.30	2.77 3.56	1.29 -0.20	14
15	-0.40 1.50	2.01 2.56	-0.23 0.65	2.51 2.54	0.99 2.14	-0.52 -0.56	2.56 4.35	1.82 0.86	1.42 2.04	3.81 4.90	2.71 3.38	0.81 -0.13	15
16	-0.60 0.95	2.07	0.30 0.65	3.05 2.52	1.19 2.46	-0.06 -0.60	3.23 5.34	2.41	1.16 1.76	3.79 4.61	2.74 3.45	0.61	16
17	2.35 2.10	-0.67 0.49	0.55 0.55	3.38 2.57	1.43 3.04	0.44 -0.25	1.77 2.48	4.04 5.19	1.10 1.57	3.82 4.36	0.14 0.74	3.12 3.47	17
18	2.27 2.32	-0.43 0.27	0.71 0.36	3.29 2.47	1.78 3.35	0.80	1.39 3.36	3.95 6.23	1.02 1.41	3.83 4.16	0.37 0.43	3.23 3.16	18
19	2.35 2.60	-0.06 0.23	0.83 0.13	3.35 2.13	-0.17 1.07	2.16 3.64	2.38 2.73	4.25 5.35	1.04 1.23	3.92 3.74	0.29 0.28	3.22 3.14	19
20	2.38 2.81	0.13 0.06	0.89 -0.04	3.57 2.39	-0.06 1.04	2.22 3.61	1.66 2.06	3.77 4.63	0.95 1.12	3.93 3.48	0.64 0.68	3.78 3.31	20
21	2.20 2.54	0.07	1.04 -0.11	3.66 2.39	-0.11 1.06	2.42 3.63	1.27 1.89	3.74 3.98	1.02 1.07	3.99 3.27	0.75 0.22	3.53 3.06	21
22	-0.38 0.09	1.81 2.50	NR	NR	0.05 1.36	2.80 3.73	1.02 1.45	3.59 3.33	1.24 0.91	4.05 2.82	0.91 0.04	3.49 2.51	22
23	-0.55 0.26	1.63 2.95	NR	NR	0.15 1.00	2.56 3.16	0.56 0.94	3.26 2.70	1.22 0.67	3.62	0.81 -0.13	3.28 2.32	23
24	-0.53 0.77	1.86 3.28	NR	NR	-0.02 0.77	2.46 2.50	0.45 0.88	3.31 2.38	2.70 4.01	1.88 1.13	1.01 -0.20	3.18 2.30	24
25	-0.43 0.77	2.00 3.32	NR	NR	-0.39 0.31	2.08 1.90	0.63 0.79	3.47 2.09	2.75 3.89	1.83 0.45	1.37 -0.04	3.21	25
26	-0.40 1.18	2.16 3.53	NR	NR	-0.56 0.16	2.12 1.78	0.74 0.27	3.36	2.59 3.55	1.88 0.44	2.38 3.04	1.54 -0.22	26
27	-0.24 1.20	2.30 3.23	NR	NR	-0.19 0.39	2.58	1.63 3.19	0.72 -0.18	2.84 3.76	1.88 0.79	2.48 2.89	1.54 -0.27	27
28	-0.46 1.11	2.00 2.93	NR	NR	2.00 3.15	0.49 0.17	1.64 3.05	1.01 -0.14	3.33 3.95	2.19 0.62	2.46 2.67	1.15 -0.63	28
29	-0.52 0.67	1.89 1.98	NR	NR	1.71 2.89	0.47 -0.26	2.45 3.83	1.93 0.39			2.02 2.25	0.46 -0.84	29
30	-0.94 -0.06	1.64	NR	NR	1.59 2.68	0.66 -0.50	2.98 3.92	2.03			2.02 2.31	0.22 -0.69	30
31	2.18 1.98	-0.66 -0.12			1.57 2.98	0.91 -0.47	0.29 1.78	2.91 3.81			2.29 2.43	0.05 -0.26	31
MAXIMUM	3.53		NR	NR	NR	NR	6.23		5.09		4.09		MAXIMUM
MINIMUM	-0.94		NR	NR	NR	NR	-0.44		0.07		-0.84		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 51 38, LONG. 121 34 48, NW SEC. 7, T15, R4E
ON CLIFTON COURT ISLAND, 6.1 MILES SOUTHEAST OF BYRON

PERIOD OF RECORD: MAY 1968 TO DATE

TABLE 8-12 (CONTINUED)

DAILY TIDES

895278 ITALIAN SLOUGH NEAR MOUTH
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.45	-0.14	2.65	-0.83	3.57	-0.75	2.56	-1.32	-0.30	1.99	-0.69	1.21	1
	2.36	-0.45	2.06	-0.04	2.31		1.66		-0.94	2.12	-0.61	2.15	
2	2.40	-0.38	2.93	-0.90	0.75	3.46	-0.27	2.67	-0.29	1.76	-0.74	0.99	2
	2.08		2.00	0.03	-0.88	2.08	-1.25	1.65	-0.97	2.03	-0.35	2.45	
3	-0.51	2.51	2.87	-1.04	0.53	3.04	-0.47	2.26	-0.46	1.49	-0.98	0.95	3
	-0.60	1.89	2.06		-0.99	1.74	-1.37	1.64	-0.84	2.02	-0.08	2.56	
4	-0.48	2.71	0.31	3.51	0.38	2.74	-0.41	1.60	-0.63	1.07	-0.86	1.63	4
	-0.68	2.06	-0.77	2.36	-1.09	2.17	-1.50	1.64	-0.60	2.13	1.10	3.27	
5	-0.07	2.90	0.65	3.69	0.33	2.50	-0.64	1.22	-0.56	1.07	-0.64	1.51	5
	-0.68	2.27	-0.92	1.78	-1.30	2.01	-1.40	1.60	0.04	2.73	0.75		
6	0.50	3.46	0.51	2.76	-0.16	1.90	-0.72	1.09	-0.65	1.53	2.41	-1.21	6
	-0.40	2.33	-1.19	1.90	-1.50	1.76	-1.25	1.71	0.61		1.41	0.26	
7	0.67	3.43	0.43	2.80	-0.47	1.43	-1.02	0.57	2.77	-0.77	2.06	-1.26	7
	-0.50	2.10	-1.10		-1.47		-1.15		1.50	0.83	1.40	0.02	
8	0.59	3.08	2.12	0.32	1.86	-0.78	1.66	-1.25	2.74	-0.88	1.91	-1.28	8
	-0.95		2.73	-1.15	1.19	-1.35	0.46	-0.64	1.51	0.94	1.17	-0.20	
9	2.06	0.77	2.01	0.02	1.94	-0.91	1.83	-1.41	2.58	-1.03	1.78	-1.23	9
	2.96	-0.96	2.24	-1.15	0.97	-0.74	0.89	-0.12	1.63	0.62	1.27	0.09	
10	2.15	0.65	1.23	-0.44	2.15	-0.96	2.11	-1.20	2.38	-1.23	2.20	-0.65	10
	2.75	-0.90	1.36	-1.18	1.01	-0.01	1.30	0.38	1.53	0.29	2.07	-0.06	
11	2.34	0.50	1.68	-0.76	2.36	-0.95	2.39	-1.20	2.40	-1.20	2.17	-0.89	11
	2.70	-0.77	1.52	-1.18	1.68	0.24	1.47	0.69	1.26	0.39	1.89		
12	2.45	0.22	2.29	-0.71	2.51	-1.11	2.40	-1.14	2.28	-1.06	-0.44	1.93	12
	2.64	-0.55	1.63	-0.76	1.68	0.36	1.71	0.86	1.76	-0.39	-0.91	1.99	
13	2.51	-0.09	2.46	-0.78	2.57	-1.31	2.71	-0.73	2.27	-1.16	-0.56	1.79	13
	2.54	-0.49	1.71	-0.55	1.64	0.42	2.15	1.27	1.57		-0.75	2.21	
14	2.56	-0.40	2.63	-0.99	2.65	-1.36	3.06	-0.60	-0.33	1.83	-0.69	1.59	14
	2.14	-0.61	1.38	-0.24	1.46	0.22	2.26	1.04	-1.18	1.68	-0.72	2.24	
15	2.51	-0.59	2.73	-1.21	2.32	-1.53	2.76	-0.81	-0.36	1.71	-0.86	1.40	15
	2.17	-0.33	1.27	-0.23	1.42	0.62	2.06		-1.02	1.68	-0.60	2.09	
16	2.48	-0.74	2.66	-1.45	2.47	-1.50	0.09	2.88	-0.45	1.65	-0.91	1.39	16
	2.11		1.31	-0.12	1.50		-0.88	1.98	1.00	1.71	-0.39	2.17	
17	-0.22	2.69	2.77	-1.44	0.61	2.36	0.22	2.53	-0.62	1.41	-1.03	1.45	17
	-0.65	2.46	0.98	0.07	-1.52	1.46	-0.94	2.02	-1.04	1.93	-0.27	2.37	
18	0.38	2.68	2.26	-1.34	-0.14	2.17	0.30	1.96	-0.65	1.20	-1.11	1.37	18
	-0.93	2.04	1.95		-1.40	1.27	-0.97	1.98	-0.84	2.04	0.07	2.47	
19	0.44	2.71	0.78	2.70	-0.19	2.01	0.09	1.75	-0.81	0.84	-1.14	1.51	19
	-0.81	1.84	-1.19	1.92	-1.51	1.40	-1.12	1.83	-0.71	2.34	0.41	2.48	
20	0.34	2.49	0.50	2.34	-0.05	1.66	-0.19	1.54	-1.09	0.82	-1.21	1.55	20
	-1.13	1.60	-1.49	1.26	-1.43	1.45	-1.20	1.84	-0.43	2.58	0.22		
21	0.34	2.37	0.50	2.23	-0.16	1.34	-0.55	0.92	-1.17	0.68	2.32	-1.22	21
	-1.18	1.62	-1.42	1.86	-1.55	1.65	-1.29	1.61	0.12	2.64	1.48	-0.14	
22	0.57	2.28	0.59	2.08	0.08	1.49	-0.80	0.61	-1.38	0.88	2.17	-1.24	22
	-1.16		-1.49	1.71	-1.29		-1.04	2.10	0.20		1.40	-0.27	
23	1.51	1.05	0.33	1.60	1.66	-0.59	-1.12	0.83	2.31	-1.29	2.14	-1.16	23
	2.43	-1.10	-1.52		0.74	-1.43	-0.64		1.20	0.46	1.56	-0.49	
24	1.96	1.16	1.64	0.15	1.53	-1.02	2.20	-1.36	2.46	-1.35	2.06	-1.08	24
	2.33	-1.13	1.36	-1.51	0.59	-1.04	0.74	-0.28	1.29	-0.03	2.08	-0.51	
25	1.95	0.94	1.51	-0.28	1.60	-1.21	2.09	-1.41	2.34	-1.26	1.91	-0.92	25
	2.02	-1.14	1.21	-1.49	0.85	-0.74	0.97	0.09	1.18	-0.25	1.95		
26	2.06	0.59	1.75	-0.63	2.03	-1.44	2.47	-1.37	2.14	-1.12	-0.97	1.75	26
	1.79	-1.10	0.83	-1.27	0.99	-0.24	1.33	0.69	1.74	-0.28	-1.10	1.83	
27	2.30	0.39	1.75	-0.99	2.43	-1.36	2.99	-0.80	2.43	-0.90	-1.18	1.35	27
	2.24	-0.79	0.65	-1.23	1.26	0.25	1.98	0.74	1.76		-0.97	1.81	
28	2.49	-0.13	1.50	-1.43	2.68	-1.03	3.24	-0.73	-0.79	1.61	-1.18	1.23	28
	1.82	-0.56	0.89	-0.91	1.72	0.63	1.72	0.41	-1.21	1.85	-0.72	2.00	
29	2.37	-0.44	2.04	-1.38	3.12	-1.10	3.03	-0.84	-0.70	1.52	-1.11	1.21	29
	1.80	-0.46	1.44	-0.20	1.71	0.43	1.34	0.07	-1.10	1.88	-0.41	2.07	
30	2.47	-0.45	2.69	-0.87	2.86	-1.23	2.59	-0.93	-0.47	1.77	-0.96	1.31	30
	2.15	-0.25	2.19	0.80	1.71	0.20	1.71		-0.50	2.26	0.14	2.10	
31			3.42	-0.61			-0.14	2.39	-0.57	1.53			31
			2.38	0.93			-0.99	1.83	-0.63	2.21			
MAXIMUM	3.46A		3.69A		3.57A		3.24A		2.77A		3.27A		MAXIMUM
MINIMUM	-1.18A		-1.52A		-1.55A		-1.50A		-1.38A		-1.28A		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.34 - 2/15/69

ZERO OF GAGE: 1968 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

895300 GRANT LINE CANAL AT TRACY ROAD BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	5.48	2.75	4.69	2.61	4.60	3.43	2.86	4.53	3.49	5.91	4.10	6.57	1
	5.34	3.95	4.94	2.79	5.68		4.09	6.05	4.49	6.85	5.07	7.02	
2	5.21	2.67	4.39	2.71	3.13	4.88	2.86	5.38	3.50	5.99	4.22	6.60	2
	5.52	3.58	4.97		3.91	5.99	4.27	6.38	4.40	6.87	4.83	6.91	
3	5.16	2.84	2.73	4.46	3.24	5.05	3.27	5.81	3.69	6.30	4.10	6.55	3
	5.74	3.53	3.04	5.50	4.03	5.87	4.44	6.49	4.59	6.99	4.60	6.82	
4	5.26	3.04	2.93	4.71	3.37	5.35	3.16	5.61	3.96	6.52	4.34	6.97	4
	5.90		3.46	5.67	4.56	6.68	4.40	6.48	4.54	6.95	4.72	6.68	
5	3.60	4.85	2.94	4.68	3.55	5.34	3.09	5.48	4.01	6.62	4.37	6.64	5
	2.85	5.23	3.51	5.57	4.38	6.33	4.10	6.29	4.38	6.68	4.58	7.16	
6	2.86	4.70	2.61	4.37	3.10	5.31	3.01	5.30	3.79	6.51	4.45	6.59	6
	2.93	5.32	3.53	5.58	4.46	6.49	4.01	6.05	4.36	6.85	4.57	7.19	
7	2.79	4.67	2.72	4.73	3.42	5.55	3.03	5.33	4.28	6.97	4.64	6.82	7
	3.16	5.85	3.95	6.10	4.69	6.65	3.93	5.67	4.52	6.59	4.39	6.76	
8	3.14	4.86	2.86	4.95	3.50	5.55	2.93	5.27	4.20	7.14	4.63	7.01	8
	3.42	6.11	3.93	5.63	4.63	6.34	3.49	5.50	4.29	6.19	4.41	6.68	
9	2.54	4.95	2.58	4.83	3.23	5.06	3.02	5.77	4.16	7.22	4.85	7.11	9
	3.50	6.35	3.93	5.56	4.23	5.80	4.37	6.16	3.99		4.34	6.29	
10	2.69	4.84	2.64	4.89	2.84	4.83	3.50	5.97	6.03	4.78	4.82	7.15	10
	3.65	6.35	4.29	5.64	4.13	5.32	3.79	5.42	7.37	4.34	4.29		
11	2.72	4.61	2.97	5.30	2.74	5.01	3.07	5.76	6.32	5.20	6.45	5.23	11
	3.90	6.27	4.81	5.93	4.04	5.35	3.57		8.21	4.74	7.21	4.25	
12	2.65	4.49	2.76	4.76	2.73	5.03	5.23	3.47	6.66	5.43	6.42	5.37	12
	4.21	5.83	4.07	5.02	3.71	4.84	6.26	3.59	7.82	4.63	7.05	3.97	
13	2.47	4.85	2.44	4.79	2.55	4.98	5.18	3.80	7.05	5.85	6.32	5.26	13
	4.31	5.79	3.99		3.36	4.49	6.25	3.57	8.37		7.10	3.92	
14	2.54	4.48	5.00	2.86	2.64	4.86	5.40	4.29	4.92	7.10	6.09	4.75	14
	4.41	5.54	5.75	4.04	2.73		6.40	3.57	5.74	8.44	6.78		
15	2.58	4.58	5.14	2.93	3.99	2.66	5.51	4.86	5.09	7.18	3.53	6.01	15
	4.24		5.43	3.73	5.02	2.70	7.29		5.57	8.26	4.25	6.68	
16	5.20	2.40	5.43	3.47	4.13	3.06	4.00	6.25	4.90	7.16	3.51	6.04	16
	4.89	3.86	6.04	3.83	5.33	2.71	5.36	8.59	5.35	7.98	4.06	6.75	
17	5.07	2.34	5.57	3.72	4.35	3.52	4.95	7.19	4.92	7.20	3.72	6.41	17
	4.96	3.44	6.35	3.80	5.85		5.48	8.31	5.28	7.76	4.20	6.76	
18	4.96	2.59	5.55	3.90	3.04	4.76	4.55	6.86	4.88	7.22	3.87	6.51	18
	5.18	3.27	6.23		3.88	6.21	6.38	9.44	5.18	7.55	3.94	6.46	
19	4.99	2.95	3.65	5.43	3.13	5.08	5.64	7.21	4.89	7.30	3.81	6.50	19
	5.46	3.28	4.01	6.15	4.13	6.54	5.89	8.59	5.00	7.10	3.82	6.41	
20	5.06	3.13	3.47	4.98	3.26	5.20	4.93	6.87	4.73	7.27	4.11	7.05	20
	5.65		4.02	6.51	4.12	6.52	5.22	7.87	4.84	6.82	4.22	6.59	
21	3.08	4.87	3.33	5.39	3.23	5.51	4.59	6.71	4.69	7.34	4.20	6.75	21
	3.07	5.29	4.14	6.61	4.17	6.56	5.09	7.01	4.76	6.57	3.82	6.37	
22	2.65	4.42	3.26	5.40	3.41	5.77	4.32	6.56	4.78	7.34	4.33	6.77	22
	3.08	5.05	4.30	6.57	4.48	6.68	4.66	6.56	4.55	6.12	3.70	5.82	
23	2.54	4.31	3.33	5.28	3.47	5.49	3.88	6.29	4.70	6.77	4.24	6.44	23
	3.25	5.73	4.26	6.30	4.13	6.10	4.16	5.93	4.27		3.57	5.62	
24	2.59	4.72	3.27	5.30	3.31	5.38	3.71	6.29	5.93	5.19	4.41	6.37	24
	3.77	6.09	4.18	6.15	3.95	5.43	4.09	5.59	7.12	4.62	3.52		
25	2.69	4.85	3.04	5.02	2.94	4.96	3.83	6.53	6.02	5.14	5.57	4.70	25
	3.72	6.14	3.84	5.54	3.46	4.79	4.00		7.10	4.02	6.43	3.66	
26	2.71	5.02	2.75	4.85	2.72	5.03	5.29	3.90	5.81	5.14	5.63	4.86	26
	4.13	6.36	3.70	5.12	3.33		6.55	3.52	6.61	3.94	6.22	3.51	
27	2.87	5.19	2.78	5.15	4.73	3.00	4.81	3.84	6.06	5.09	5.70	4.85	27
	4.15	6.05	3.67		5.48	3.55	6.36	3.11	6.89	4.22	6.16	3.49	
28	2.66	4.90	5.07	2.95	4.97	3.64	4.82	4.08	6.58	5.37	5.72	4.63	28
	4.12	5.76	5.38	3.46	6.16	3.46	6.12	3.15	7.04		6.04	3.20	
29	2.60	4.65	4.82	3.00	4.80	3.58	5.61	4.94			5.31	3.98	29
	3.72		5.24	3.07	5.82	3.00	6.77				5.52	2.99	
30	4.80	2.19	4.60	3.16	4.58	3.71	3.68	6.19			5.30	3.75	30
	4.61	3.01	5.41	3.03	5.58		5.08	6.98			5.52		
31	5.27	2.45			2.79	4.51	3.65	6.11			3.08	5.58	31
	4.99	2.95			3.95	5.84	4.86	6.84			3.70	5.73	
MAXIMUM	6.36		6.61		6.68		9.44		8.44		7.21		MAXIMUM
MINIMUM	2.19		2.44		2.55		2.86		3.49		2.99		MINIMUM

LOCATION: LAT. 37 49 13, LONG 121 26 55, NE SEC. 29, T1S, R5E
AT TRACY ROAD BRIDGE CROSSING, 5 MILES NORTH OF TRACY.
STATION WAS DISCONTINUED OCTOBER 4, 1966, AND REACTIVATED
MARCH 1, 1968.

PERIOD OF RECORD: OCT. 1940 TO SEPT. 1966
MAR. 1968 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

B95300 GRANT LINE CANAL AT TRACY ROAD BRIDGE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	3.44	5.68	5.49	2.46	4.45	6.68	3.59	5.69	3.13	4.97	2.79	4.19	1
	3.55	5.69	5.12		3.07	5.80	2.25	4.89	2.55	5.10	2.81	5.43	
2	3.30	5.55	3.12	5.75	4.26	6.42	3.08	5.79	3.14	4.76	2.73	3.96	2
	3.34	5.33	2.42	5.05	2.93	5.52	2.32	4.88	2.50	5.17	3.03	5.71	
3	3.21	5.78	3.17	5.78	4.07	6.07	2.94	5.40	2.96	4.54	2.49	4.32	3
	3.14	5.18	2.35	5.15	2.84	4.88	2.08	4.83	2.59	4.98	3.27	5.87	
4	3.18	6.00	3.45	6.56	3.85	5.89	2.97	4.59	2.79	3.95	2.63	4.97	4
	3.10	5.30	2.67	5.39	2.68	5.62	1.86		2.76		4.48		
5	3.49	5.95	3.74	6.68	3.84	5.68	4.82	2.75	5.04	2.86	6.27	2.89	5
	3.06	5.52	2.50	4.62	2.49		4.34	2.14	4.07	3.32	4.97	4.09	
6	3.92	6.50	3.60	5.50	5.28	3.39	4.58	2.74	5.65	2.78	5.54	2.30	6
	3.30	5.58	2.15		5.19	2.19	4.31	2.31	4.84	3.95	4.67	3.60	
7	4.05	6.48	4.91	3.49	4.98	3.09	4.67	2.45	5.69	2.67	5.10	2.21	7
	3.18	5.34	5.57	2.26	4.67	2.10	3.69	2.33	4.78	4.15	4.75	3.39	
8	3.92	6.16	5.10	3.38	5.04	2.84	4.55	2.22	5.76	2.62	5.05	2.21	8
	2.73		5.72	2.00	4.52	2.31	3.73	2.74	4.81	4.28	4.62	3.19	
9	5.29	4.01	4.97	3.10	4.96	2.70	4.50	2.04	5.56	2.47	4.88	2.14	9
	6.04	2.68	5.23	1.88	4.23	2.88	4.15	3.21	4.91	3.94	4.37	3.51	
10	5.34	3.89	3.85	2.65	5.17	2.75	4.96	2.27	5.31	2.26	5.25	2.85	10
	5.82	2.72	4.29	1.72	4.12	3.43	4.56	3.71	4.77	3.65	5.43		
11	5.50	3.75	4.52	2.46	5.29	2.69	5.31	2.27	5.41	2.30	3.39	5.54	11
	5.85	2.78	4.68	2.14	5.14	3.77	4.73	4.01	4.60	3.75	2.63	5.21	
12	5.61	3.55	5.45	2.64	5.58	2.63	5.55	2.33	5.16	2.44	3.02	5.24	12
	5.85	2.92	4.92	2.65	5.14	3.85	4.95	4.18	4.98		2.60	5.29	
13	5.55	3.23	5.77	2.68	5.66	2.52	5.59	2.76	3.02	5.37	2.95	5.08	13
	5.74	2.92	5.12	2.95	5.09	3.94	5.41	4.56	2.33	4.81	2.79	5.53	
14	5.59	2.96	5.97	2.62	5.66	2.35	5.98	2.89	3.03	4.74	2.88	4.85	14
	5.33		4.31	3.19	4.86		5.50		2.28	4.88	2.75	5.55	
15	2.87	5.53	6.02	2.36	3.68	5.32	4.20	5.96	3.09	4.68	2.67	4.72	15
	2.85	5.19	4.53		2.04	4.84	2.71	5.30	2.42	4.85	2.86	5.28	
16	3.04	5.41	3.20	5.91	4.03	5.47	3.48	6.06	2.99	4.67	2.66	4.71	16
	2.70	5.27	2.16	4.59	2.26	4.75	2.63	5.23	2.48	4.87	3.08	5.31	
17	3.13	5.75	3.29	6.08	3.99	5.39	3.46	5.63	2.81	4.44	2.55	4.81	17
	2.84	5.63	2.20	3.96	2.15	4.83	2.58	5.24	2.43	4.90	3.16	5.60	
18	3.62	5.63	5.33	2.36	3.25	5.48	3.46	5.24	2.79	4.05	2.48	4.76	18
	2.59	5.18	5.41		1.89	4.61	2.56	5.18	2.57	5.22	3.48		
19	3.61	5.54	4.22	5.91	3.15	5.28	3.42	4.86	2.64	3.73	5.79	2.46	19
	2.66	4.96	2.72	5.41	1.79	4.71	2.45	4.89	2.68	5.51	4.93	3.79	
20	3.49	5.42	4.03	5.46	3.24	4.93	3.29	4.67	2.31	4.09	5.71	2.30	20
	2.36	4.69	2.35	4.60	1.70		2.38		2.90	5.67	4.98	3.61	
21	3.43	5.16	3.87	5.47	4.72	3.17	4.88	2.92	2.32	4.02	5.50	2.26	21
	2.08	4.71	2.40		4.46	1.75	4.00	2.18	3.51	5.58	4.89	3.32	
22	3.58	5.13	5.37	4.08	4.61	3.41	4.73	2.64	2.14	4.22	5.39	2.29	22
	2.00		5.39	2.32	4.67	2.23	3.60	2.43	3.60		4.60	3.17	
23	4.44	4.07	5.22	3.85	4.74	2.86	4.97	2.38	5.24	2.25	5.35	2.44	23
	5.37	2.10	4.96	2.32	3.80	2.08	4.16	2.83	4.46	3.83	4.93	3.04	
24	5.03	4.13	5.01	3.64	4.46	2.45	5.17	2.10	5.37	2.12	5.25	2.52	24
	5.19	2.01	4.67	2.05	3.89	2.42	4.00	3.05	4.57	3.40	5.45		
25	4.96	3.88	4.66	3.26	4.07	2.27	4.73	1.91	5.21	2.26	3.03	5.30	25
	4.94	1.97	4.59	2.29	4.08	2.67	4.24	3.40	4.36	3.18	2.66	5.31	
26	5.03	3.56	4.75	2.96	4.92	2.07	5.35	2.06	4.96	2.40	2.60	4.93	26
	4.74	2.09	4.04	2.36	4.31	3.13	4.57	4.04	4.96		2.46	5.12	
27	5.25	3.40	4.75	2.66	5.20	2.15	5.79	2.66	2.94	5.56	2.41	4.65	27
	5.07	2.46	3.73	2.39	4.54	3.58	5.19	4.07	2.60	5.04	2.58	5.12	
28	5.34	3.07	4.40	2.28	5.88	2.49	6.20	2.78	2.76	4.84	2.39	4.45	28
	4.77	2.77	4.19	2.71	5.05	3.99	4.94	3.77	2.29	5.07	2.77	5.24	
29	5.10	2.75	5.03	2.36	6.13	2.50	5.97	2.66	2.79	4.43	2.47	4.26	29
	4.64	2.77	4.93	3.35	5.03	3.81	4.19		2.40	5.19	3.02	5.27	
30	5.37	2.81	5.68	2.83	5.74	2.42	3.42	5.46	2.96	4.79	2.59	4.38	30
	5.11	2.96	5.65	4.25	4.95		2.54	4.98	2.92	5.43	3.54	5.12	
31			6.46	3.10			3.26	5.34	2.94	4.72			31
			5.85				2.49	4.93	2.91	5.33			
MAXIMUM	6.50		6.68		6.68		6.20		5.76		6.35		MAXIMUM
MINIMUM	1.97		1.72		1.70		1.86		2.12		2.14		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 14.7 - 12/11/50

ZERO OF GAGE: 1940 TO 1952 -3.66 USCGS
1952 TO 1953 -4.13 USCGS
1953 TO 1960 -2.13 USCGS
1960 -3.00 USCGS
1964 -3.56 USCGS
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)
DAILY TIDES
R95270 OLD RIVER NEAR BYRON
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	-0.34 0.96	2.40	1.83 2.13	-0.51 -0.38	1.67 2.81	0.20 -0.30	1.61 3.07	0.90 -0.56	-0.01 1.28	2.56 3.68	3.15 3.80	1.73 0.54	1
2	2.88 2.49	-0.38 0.62	1.60 2.18	-0.42 -0.46	1.97 3.13	0.70 -0.16	2.13 3.34	1.10	-0.03 1.16	2.62 3.68	3.13 3.68	1.38	2
3	2.76 2.72	-0.20 0.74	1.73 2.55	-0.06 -0.28	2.13 3.15	0.91	NR	NR	0.17 1.33	2.93 3.84	0.47 1.16	3.11 3.70	3
4	2.74 2.84	0.00 0.34	1.99 2.81	0.30	0.00 1.40	2.47 3.75	-0.23 1.27	2.35 3.45	0.47 1.29	3.19 3.86	0.78 1.25	3.52 3.68	4
5	2.42 2.44	-0.20 -0.18	-0.30 0.40	1.89 2.67	0.14 1.20	2.37 3.40	-0.35 0.97	2.23 3.22	0.55 1.07	3.25 3.48	0.82 1.09	3.46 3.71	5
6	2.15 2.55	-0.10	-0.60 0.50	1.63 2.76	-0.36 1.44	2.47 3.55	-0.42 0.85	2.21 3.05	0.37 1.11	3.34 3.53	0.89 1.09	3.60 3.74	6
7	-0.24 0.17	2.19 2.84	-0.50 0.80	1.85 3.22	0.00 1.60	2.50 3.75	-0.38 0.76	2.25 2.77	0.96 1.18	3.82 3.20	1.14 0.88	3.75 3.33	7
8	0.12 0.46	2.26 3.08	-0.36 0.80	1.84 2.75	0.10 1.50	2.54 3.37	-0.48 0.42	2.15 2.50	0.79 0.86	3.76 2.78	1.17 0.85	3.92 3.22	8
9	-0.38 0.58	2.01 3.31	-0.76 0.80	1.67 2.71	-0.19 1.10	2.12 2.85	-0.27 1.29	2.65 3.09	0.84 0.61	3.87	1.43 0.69	4.02 2.82	9
10	-0.28 0.74	1.94 3.30	-0.66 1.30	1.93 2.81	-0.60 1.00	1.95 2.47	0.19 0.63	2.95 2.21	2.72 4.34	1.66 1.01	1.31 0.50	3.90 3.00	10
11	-0.28 0.96	1.88 3.22	-0.40 1.60	2.45 2.97	-0.70 0.90	2.11 2.37	NR	NR	3.00 4.90	2.09 1.42	1.78 0.45	4.02	11
12	-0.38 1.24	1.78 3.05	-0.56 1.00	1.95 2.16	-0.66 0.50	2.13 1.83	NR	NR	3.29 4.61	2.25 1.05	2.93 3.82	1.96 0.18	12
13	-0.56 1.36	1.86 3.07	-0.83 1.00	1.91 2.26	-0.81 0.17	2.13 1.50	NR	NR	3.58 4.87	2.46 1.13	2.86 3.77	1.84 0.06	13
14	-0.48 1.40	1.82 2.86	-0.40 0.90	2.77 2.29	-0.70 -0.60	2.06	NR	NR	3.57 4.91	2.20	2.62 3.43	1.17 -0.34	14
15	-0.40 1.48	2.08 2.66	-0.27 0.60	2.50	1.01 2.23	-0.60 -0.66	NR	NR	1.30 1.94	3.63 4.73	2.54 3.23	0.73 -0.24	15
16	-0.60 0.94	2.12	2.55 3.07	0.20 0.50	1.17 2.57	-0.11 -0.70	NR	NR	1.02 1.64	3.61 4.43	2.59 3.29	0.50 0.04	16
17	2.38 2.15	-0.67 0.48	2.53 3.41	0.44 0.44	1.43 3.17	0.34 -0.40	NR	NR	0.95 1.43	3.64 4.19	2.97 3.30	0.63	17
18	2.34 2.36	-0.44 0.26	2.54 3.35	0.64 0.24	1.74 3.40	0.74	1.38 3.29	3.96 6.11	0.86 1.27	3.65 3.97	0.28 0.31	3.09 3.00	18
19	2.44 2.66	-0.06 0.22	2.43 3.45	0.70	-0.30 1.01	2.16 3.71	2.30 2.67	4.25 5.23	0.90 1.10	3.75 3.56	0.19 0.16	3.08 2.99	19
20	2.46 2.84	0.12 0.05	0.05 0.83	2.19 3.59	-0.20 0.90	2.21 3.67	1.59 2.01	3.78 4.51	0.81 1.00	3.75 3.29	0.58 0.60	3.64 3.15	20
21	2.26 2.64	0.06	-0.16 0.97	2.35 3.69	-0.26 1.01	2.34 3.67	1.19 1.84	3.72 3.98	0.90 0.96	3.83 3.10	0.66 0.13	3.38 2.90	21
22	-0.40 0.00	1.92 2.64	-0.30 1.10	2.37 3.73	-0.06 1.31	2.77 3.74	0.96 1.40	3.57 3.21	1.14 0.78	3.88 2.65	0.83 -0.08	3.34 2.36	22
23	-0.56 0.25	1.77 3.03	-0.20 1.10	2.37 3.51	0.05 0.92	2.54 3.19	0.51 0.89	3.21 2.58	1.13 0.57	3.54 2.57	NR	NR	23
24	-0.54 0.72	1.95 3.35	-0.20 1.00	2.35 3.22	-0.20 0.70	2.47 2.53	0.40 0.83	3.27 2.27	1.83 1.05	4.01	NR	NR	24
25	-0.45 0.74	2.05 3.38	-0.46 0.64	2.15 2.59	-0.50 0.25	2.12 1.95	0.59 0.75	3.48 1.98	2.61 3.74	1.76 0.35	NR	NR	25
26	-0.42 1.14	2.21 3.57	-0.73 0.50	2.03 2.24	-0.70 0.00	2.19 1.77	0.70 0.23	3.33	2.45 3.46	1.82 0.34	NR	NR	26
27	-0.26 1.16	2.32 3.27	-0.66 0.40	2.29 2.15	-0.30 0.30	2.66 1.97	1.52 3.08	0.68 -0.23	2.69 3.71	1.82 0.69	NR	NR	27
28	-0.50 1.08	2.10 2.97	-0.50 0.10	2.50	0.40 0.09	3.17	1.54 3.04	0.98 -0.19	3.19 3.89	2.12 0.54	NR	NR	28
29	-0.55 0.60	2.03 2.05	1.87 2.37	-0.40 -0.30	1.67 2.93	0.40 -0.36	2.36 3.83	1.89 0.31	NR	NR	NR	NR	29
30	-1.02 -0.11	1.71	1.59 2.55	-0.10 -0.40	1.57 2.73	0.60 -0.60	2.87 3.87	1.98 0.22	NR	NR	NR	NR	30
31	2.07 2.00	-0.74 -0.17			1.55 3.01	0.84 -0.56	2.78 3.73	1.73	NR	NR	NR	NR	31
MAXIMUM	3.57		3.73A		3.75		NR		4.91		NR		MAXIMUM
MINIMUM	-1.02		-0.83A		-0.81		NR		-0.03		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 53 28, LONG. 121 34 09, NE SEC. 31, T1N, R4E
AT HIGHWAY 4 BRIDGE, 4.2 MILES EAST OF BYRON.

PERIOD OF RECORD: MAY 1963 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

 895270 OLD RIVER NEAR BYRON
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	NR	NR	2.73 1.98	-0.82 -0.03	4.06 2.62	-0.40 1.00	3.15 2.03	-1.02	NR	NR	-0.27 -0.21	1.76 2.57	1
2	NR	NR	2.96 1.94	-0.88 0.05	3.90 2.46	-0.51	0.10 1.00	3.07 2.03	0.08 -0.60	2.28 2.50	-0.33 0.01	1.54 2.82	2
3	2.37 1.75	-0.72	2.94 2.01	-1.05	0.92 -0.80	3.50 2.25	NR	NR	-0.06 -0.52	1.98 2.52	-0.59 0.33	1.35 2.92	3
4	-0.57 -0.82	2.58 1.92	0.35 -0.75	3.49 2.30	0.74 -0.70	3.22 2.50	NR	NR	-0.32 -0.26	1.60 2.68	-0.45 1.52	1.94 3.65	4
5	-0.14 -0.76	2.84 2.13	0.67 -0.90	3.61 1.88	0.70 -0.90	2.97 2.38	NR	NR	-0.16 0.35	1.62 3.22	-0.20 1.15	1.98 2.84	5
6	0.42 -0.47	3.42 2.21	0.55 -1.25	2.90 1.86	0.20 -1.20	2.34 2.25	NR	NR	-0.32 1.04	1.92	-0.81 0.69	1.77	6
7	0.61 -0.60	3.45 1.97	0.46 -1.18	2.93 2.08	-0.20 -1.23	1.84	NR	NR	NR	NR	2.53 1.75	-0.91 0.43	7
8	0.54 -1.01	3.04	0.34 -1.34	2.66	2.30 1.60	-0.40 1.00	NR	NR	NR	NR	2.40 1.62	-0.93 0.21	8
9	1.92 2.93	0.72 -1.03	1.96 2.17	0.05 -1.41	2.40 1.44	-0.60 -0.30	NR	NR	NR	NR	2.29 1.77	-0.98 0.50	9
10	2.02 2.70	0.62 -0.96	1.47 1.52	-0.40 -1.49	2.64 1.54	-0.56 0.35	NR	NR	NR	NR	2.73 2.47	-0.23 0.36	10
11	2.22 2.64	0.47 -0.83	1.93 1.66	-0.63 -1.02	2.91 2.00	-0.60 0.67	NR	NR	NR	NR	2.64 2.25	-0.47 -0.04	11
12	2.34 2.54	0.21 -0.59	2.51 1.92	-0.50 -0.59	3.05 2.03	-0.70 0.60	NR	NR	NR	NR	2.39 2.35	-0.48	12
13	2.51 2.42	-0.12 -0.52	2.83 2.11	-0.45 -0.14	3.09 2.01	1.00 0.87	NR	NR	NR	NR	-0.14 -0.31	2.27 2.59	13
14	2.48 2.08	-0.47 -0.62	3.02 1.77	-0.59 0.12	3.15 1.81	1.00 0.64	NR	NR	NR	NR	-0.26 -0.31	2.11 2.61	14
15	2.50 2.11	-0.61 -0.36	3.08 1.56	-0.80 0.01	2.83 1.81	-1.40 1.00	NR	NR	NR	NR	-0.44 -0.17	1.87 2.58	15
16	2.47 2.02	-0.76 -0.22	3.00 1.68	-1.09 0.30	3.00 1.99	-1.20	NR	NR	NR	NR	-0.48 0.05	1.88 2.71	16
17	2.71 2.35	-0.68	3.10 1.51	-1.04 0.41	1.00 -1.20	2.91 1.80	NR	NR	NR	NR	-0.61 0.14	1.80 2.85	17
18	0.37 -0.96	2.70 1.94	2.75 2.28	-0.99	0.30 -1.40	2.57 1.63	NR	NR	NR	NR	-0.68 0.52	1.79 2.97	18
19	0.42 -0.87	2.72 1.74	1.01 -0.75	3.22 2.32	0.20 -1.60	2.35 1.77	NR	NR	NR	NR	-0.72 0.84	1.86 2.96	19
20	0.31 -1.21	2.50 1.50	0.81 -1.08	2.88 1.76	0.20 -1.50	2.03 1.80	0.23 -0.80	2.06 2.36	NR	NR	-0.88 0.63	1.90	20
21	0.34 -1.37	2.40 1.54	0.81 -0.99	2.70 2.24	0.20 -1.36	1.85 2.10	-0.13 -0.94	1.43 2.18	NR	NR	2.80 1.83	-0.94 0.29	21
22	0.57 -1.41	2.32 1.59	1.01 -1.20	2.56 2.06	0.44 -0.86	1.97 2.17	-0.39 -0.62	1.16 2.66	NR	NR	2.64 1.90	-0.89 0.13	22
23	1.01 -1.24	2.46	0.61 -1.18	2.08	-0.20 -1.01	1.23	-0.68 -0.20	1.22 2.75	NR	NR	2.59 2.06	-0.74 -0.07	23
24	1.89 2.31	1.16 -1.30	2.10 1.78	0.55 -1.30	2.05 0.98	-0.80 -0.63	-0.99 0.14	1.05	NR	NR	2.52 2.44	-0.64 -0.10	24
25	1.89 2.01	0.92 -1.26	2.02 1.66	0.14 -1.08	2.24 1.13	-0.80 -0.40	2.68 1.32	-1.18 0.48	NR	NR	2.37 2.28	-0.53	25
26	2.00 1.78	0.57 -1.13	2.22 1.28	-0.39 -0.86	2.59 1.31	-1.01 0.00	3.03 1.69	-1.06 1.00	NR	NR	-0.55 -0.68	2.18 2.22	26
27	2.24 2.18	0.38 -0.79	2.30 1.11	-0.59 -0.99	2.95 1.63	1.00 0.60	3.56 2.34	-0.50 1.15	NR	NR	-0.78 -0.55	1.81 2.28	27
28	2.44 1.91	-0.10 -0.51	2.07 1.27	-1.06 -0.60	3.27 2.12	-0.67 1.04	3.70 2.16	-0.31 0.82	NR	NR	-0.79 -0.31	1.71 2.46	28
29	2.47 1.90	-0.45 -0.43	2.58 1.78	-0.98 0.20	3.66 2.11	-0.70 0.80	3.54 1.92	-0.49 0.44	-0.28 -0.68	2.11 2.39	-0.69 0.01	1.73 2.55	29
30	2.58 2.12	-0.46 -0.22	3.22 2.50	-0.46 1.00	3.43 2.09	-0.73 0.63	3.11 2.18	-0.56 0.24	-0.06 -0.09	2.33 2.75	-0.55 0.55	1.85 2.67	30
31			3.96 2.64	-0.26 1.35			2.90 2.32	-0.60	-0.16 -0.17	2.08 2.71			31
MAXIMUM	NR		3.96A		4.06A		NR		NR		3.65		MAXIMUM
MINIMUM	NR		-1.49A		-1.60A		NR		NR		-0.98		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 6.17 - 2/15/69

ZERO OF GAGE: 1963 TO 1964 -10.42 USCGS
1964 TO DATE 0.00 USCGS

TABLE R-12 (CONTINUED)
 DAILY TIDES
 895180 OLD RIVER NEAR ROCK SLOUGH
 (OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	2.91	5.79	5.09	2.58	4.88	3.34	4.87	4.04	5.58	4.37	5.92	4.60	1
	4.21		5.53	2.72	6.17	2.77	6.35	2.46	6.71		6.73	3.32	
2	6.45	2.88	4.97	2.69	5.23	3.87	5.16	4.30	2.95	5.64	5.90	4.20	2
	5.71	3.87	5.60	2.64	6.53	2.87	6.66	2.92	4.25	6.76	6.80	3.44	
3	6.31	3.04	5.12	3.08	5.38	4.03	5.58	4.41	3.11	5.92	6.11	4.21	3
	5.95	3.97	5.96	2.82	6.62	3.09	6.73		4.38	7.01	6.92	3.77	
4	6.31	3.24	5.38	3.53	5.81	4.54	2.76	5.38	3.45	6.25	6.52	4.29	4
	6.04	3.57	6.22	2.82	7.08		4.34	6.68	4.33	7.06	6.93		
5	5.93	3.04	5.25	3.53	3.13	5.56	2.64	5.28	3.53	6.27	3.82	6.63	5
	5.83	3.06	6.03		4.38	6.74	4.06	6.45	4.11	6.50	4.12	6.72	
6	5.66	3.13	2.48	5.03	2.70	5.80	2.56	5.24	3.36	6.45	3.88	6.85	6
	5.94	3.01	3.61	6.17	4.58	6.90	3.95	6.33	4.16	6.61	4.13	6.73	
7	5.69	3.43	2.58	5.20	3.04	5.77	2.62	5.40	4.00	6.96	4.14	6.97	7
	6.39		4.02	6.62	4.74	7.08	3.87	6.08	4.20	6.21	3.92	6.33	
8	3.35	5.78	2.72	5.16	3.10	5.75	2.53	5.38	3.82	6.75	4.20	7.15	8
	3.71	6.38	3.96	6.10	4.62	6.63	3.55	5.76	3.86	5.77	3.85	6.22	
9	3.06	5.53	2.30	4.94	2.80	5.37	2.79	6.04	3.93	6.90	4.49	7.24	9
	3.81	6.52	4.02	6.05	4.22	6.15	4.44	6.29	3.69	5.75	3.70	5.78	
10	2.99	5.49	2.38	5.23	2.39	5.23	3.23	6.23	4.80	7.56	4.36	6.98	10
	3.97	6.51	4.40	6.14	4.04	5.81	3.77	5.28	4.08	6.01	3.49	5.91	
11	2.95	5.40	2.74	5.82	2.35	5.44	2.94	6.24	5.24	8.03	4.84	7.14	11
	4.13	6.42	4.78	6.22	4.05	5.63	3.53	5.08	4.47		3.41		
12	2.87	5.26	2.48	5.25	2.37	5.46	3.42	6.67	6.32	5.39	5.80	5.00	12
	4.38	6.42	4.14	5.51	3.64	5.01	3.41	4.97	7.83	4.06	6.93	3.14	
13	2.69	5.22	2.22	5.34	2.21	5.53	3.80	6.93	6.55	5.53	5.80	4.92	13
	4.56	6.44	4.24	5.64	3.25	4.68	3.32		7.81	4.05	6.80	2.92	
14	2.76	5.33	2.74	6.07	2.40	5.46	5.15	4.29	6.51	5.24	5.53	4.16	14
	4.59	6.19	4.12	5.57	2.46		7.09	3.24	8.00	4.21	6.30	2.57	
15	2.85	5.64	2.79	5.91	4.14	2.48	5.74	4.91	6.55	4.91	5.50	3.76	15
	4.79	6.13	3.74		5.68	2.38	7.82	3.96	7.67	3.91	6.23	2.69	
16	2.64	5.50	5.81	3.31	4.36	2.98	6.39	5.74	6.54	4.62	5.59	3.51	16
	4.16	5.72	6.36	3.62	6.07	2.30	8.88	4.80	7.37		6.26	2.99	
17	2.54	5.54	5.65	3.55	4.68	3.49	7.03	5.61	3.83	6.56	5.98	3.63	17
	3.71		6.71	3.52	6.71	2.66	8.43		4.39	7.11	6.29	3.26	
18	5.75	2.78	5.74	3.73	5.08	3.84	4.54	7.26	3.72	6.55	6.11	3.27	18
	5.74	3.48	6.81	3.31	6.87	2.72	6.42	9.17	4.08	6.70	6.00	3.18	
19	5.89	3.15	5.64	3.88	5.39	4.12	5.39	7.52	3.65	6.49	6.11	3.10	19
	6.08	3.44	6.97	3.05	7.10		5.78	8.30	3.91	6.30	5.98		
20	5.93	3.32	5.53	3.90	2.81	5.40	4.67	6.93	3.62	6.51	3.63	6.67	20
	6.23	3.25	6.95		4.07	7.04	5.15	7.60	3.83	6.06	3.59	6.13	
21	5.71	3.28	2.84	5.50	2.75	5.48	4.25	6.98	3.78	6.60	3.68	6.40	21
	6.17	2.80	4.07	6.99	4.12	7.01	4.94	7.11	3.83	5.90	3.10	5.89	
22	5.42	3.29	2.76	5.54	2.97	5.99	4.07	6.84	4.06	6.66	3.86	6.33	22
	6.30		4.21	7.09	4.39	7.05	4.54	6.27	3.65	5.44	2.87	5.32	
23	2.64	5.31	2.82	5.62	3.02	5.81	3.61	6.45	4.08	6.48	3.78	6.14	23
	3.43	6.51	4.19	6.93	4.02	6.52	4.02	5.63	3.45	5.39	2.72	5.13	
24	2.63	5.37	2.80	5.60	2.88	5.80	3.52	6.50	4.79	7.00	4.02	6.06	24
	3.81	6.81	4.11	6.52	3.75	5.86	3.96	5.30	3.91	5.36	2.62	5.08	
25	2.71	5.42	2.54	5.42	2.52	5.52	3.74	6.64	4.66	6.46	4.39	6.08	25
	3.96	6.81	3.76	5.87	3.33	5.26	3.89	5.01	3.17		2.82	5.17	
26	2.75	5.59	2.27	5.36	2.39	5.58	3.86	6.43	5.20	4.73	4.59	5.96	26
	4.33	6.97	3.62	5.58	3.17	4.98	3.36		6.39	3.17	2.68		
27	2.92	5.69	2.39	5.65	2.81	6.09	4.55	3.83	5.42	4.74	5.26	4.58	27
	4.36	6.62	3.54	5.39	3.39	5.18	6.13	2.90	6.63	3.49	5.69	2.60	
28	2.69	5.64	2.65	5.87	3.54	6.48	4.56	4.14	5.92	5.02	5.23	4.18	28
	4.21	6.31	3.27	5.07	3.08		6.25	2.93	6.83	3.34	5.38	2.14	
29	2.57	5.42	2.76	5.71	4.75	3.51	5.38	5.04			4.79	3.41	29
	3.69	5.40	2.79		6.26	2.68	7.10	3.37			5.03	2.04	
30	2.11	5.04	4.82	3.01	4.72	3.74	5.86	5.12			4.86	3.19	30
	2.96		5.94	2.70	6.13	2.43	7.03	3.23			5.18	2.17	
31	5.14	2.34			4.77	3.94	5.82	4.85			5.13	2.98	31
	5.38	2.92			6.38	2.42	6.89	2.98			5.38	2.64	
MAXIMUM	6.97		7.09		7.10		9.17		8.03		7.24		MAXIMUM
MINIMUM	2.11		2.22		2.21		2.46		2.95		2.04		MINIMUM

LOCATION: LAT. 37 59 25, LONG. 121 34 49, SW SEC 30, T2N, R4E
 ON AMERICAN ISLAND (FORMERLY HOLLAND TRACT), 1.2 MILES
 NORTH OF ROCK SLOUGH, 4.7 MILES NORTHEAST OF KNIGHTSEN.

PERIOD OF RECORD: MAR. 1945 TO DATE

TABLE 8-12 (CONTINUED)
 DAILY TIDES
 895180 OLD RIVER NEAR ROCK SLOUGH
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	5.46	2.75	5.99	2.21	7.52	2.81	6.77	2.29	2.58	5.34	NR	NR	1
	5.16	2.34	4.97	3.04	5.75	4.36	5.24	3.64	1.96	5.05			
2	5.22	2.22	6.12	2.12	7.35	2.64	6.53	2.39	2.60	5.04	NR	NR	2
	4.85	2.33	4.92	3.13	5.65	4.14	5.25		1.90	5.01			
3	5.38	2.14	6.18	1.99	7.05	2.55	3.30	6.06	2.37	4.58	NR	NR	3
	4.72	2.43	5.03	3.46	5.68		2.16	5.24	1.85	5.04			
4	5.60	2.13	6.58	2.29	4.00	6.75	3.20	5.63	NR	NR	NR	NR	4
	4.93	2.89	5.31		2.47	5.65	1.97	5.27					
5	6.08	2.22	3.76	6.63	3.95	6.41	3.05	5.28	NR	NR	NR	NR	5
	5.16		2.10	5.13	2.27	5.53	2.33	5.64					
6	3.50	6.58	3.61	6.31	3.48	5.68	3.01	5.01	NR	NR	NR	NR	6
	2.52	5.23	1.83	4.90	2.00	5.51	2.53	5.78					
7	3.72	6.54	3.55	6.10	3.17	5.15	2.71	4.52	NR	NR	NR	NR	7
	2.15	4.79	1.99	5.12	1.97	5.62	2.59	5.81					
8	3.46	6.02	3.43	5.64	2.87	4.80	2.45	4.35	NR	NR	5.82	2.26	8
	1.79	4.75	1.68		2.27		3.01				4.94	3.44	
9	3.67	5.87	NR	NR	5.89	2.74	6.02	2.29	NR	NR	5.76	2.21	9
	1.79				4.80	2.98	4.45	3.51			5.21	3.69	
10	4.87	3.59	NR	NR	6.21	2.71	6.24	2.49	NR	NR	6.26	2.96	10
	5.66	1.89			4.97	3.51	4.86	4.03			5.63	3.57	
11	5.10	3.43	NR	NR	6.50	2.67	6.46	2.47	NR	NR	6.01	2.72	11
	5.51	2.06			5.19	3.92	5.10	4.30			5.42	3.18	
12	5.25	3.16	5.72	2.73	6.54	2.56	6.57	2.53	NR	NR	5.76	2.71	12
	5.45	2.30	5.06	2.76	5.16	4.05	5.25	4.48			5.55	3.08	
13	5.45	2.85	6.02	2.78	6.56	2.41	6.81	2.92	NR	NR	5.66	2.91	13
	5.34	2.40	5.28	3.10	5.19	4.15	5.71	4.84			5.81		
14	5.40	2.48	6.21	2.67	6.63	2.31	7.10	3.04	NR	NR	2.97	5.46	14
	4.99	2.37	5.39	3.38	5.00	3.91	5.80	4.70			2.89	5.83	
15	5.45	2.33	6.26	2.40	6.27	1.98	6.91	2.84	NR	NR	2.75	5.25	15
	5.02	2.59	5.09	3.40	5.02	4.29	5.60	4.36			3.03	6.03	
16	5.59	2.17	6.19	2.16	6.49	2.19	6.64	2.75	NR	NR	2.73	5.15	16
	4.94	2.77	4.96	3.52	5.17	4.20	5.56	4.14			3.26	6.20	
17	5.72	2.28	6.29	2.17	6.43	2.05	6.42	2.70	NR	NR	2.59	4.96	17
	5.24	3.35	5.00	3.69	4.97		5.59				3.37	6.25	
18	5.77	1.95	6.37	2.27	3.78	5.86	3.97	6.19	NR	NR	2.52	4.94	18
	4.87	3.43	5.42	4.43	1.79	4.79	2.69	5.58			3.72	6.38	
19	5.90	1.92	6.70	2.52	3.55	5.71	3.77	5.87	NR	NR	2.48	5.01	19
	4.63		5.46		1.80	4.95	2.62	5.63			4.04	6.36	
20	3.29	5.64	4.22	6.34	3.57	5.54	3.50	5.51	NR	NR	2.31	5.05	20
	1.69	4.40	2.13	5.16	1.79	5.03	2.55	5.72			3.83	6.20	
21	3.37	5.60	4.08	6.14	3.49	5.30	3.13	4.89	NR	NR	2.23	5.00	21
	1.53	4.46	2.19	5.39	1.88	5.35	2.39	5.72			3.52		
22	3.58	5.51	4.27	5.93	3.69	5.35	2.88	4.60	NR	NR	6.04	2.32	22
	1.59	4.69	2.11	5.22	2.34	5.54	2.68	6.04			5.21	3.36	
23	4.00	5.61	4.02	5.45	3.10	4.64	2.55	4.46	NR	NR	5.97	2.44	23
	1.77	4.84	2.10	5.44	2.22	5.57	3.11	6.19			5.32	3.15	
24	4.20	5.39	3.77	5.05	2.66	4.39	2.28	4.34	NR	NR	5.88	2.56	24
	1.71		1.94	5.36	2.61	5.94	3.33				5.62	3.10	
25	4.87	3.98	3.43	4.94	2.45	4.36	6.31	2.07	NR	NR	5.70	2.60	25
	5.08	1.76	2.28		2.93		4.53	3.71			5.48	2.63	
26	5.01	3.63	5.70	3.05	6.17	2.23	6.60	2.23	NR	NR	5.37	2.51	26
	4.88	1.90	4.65	2.38	4.51	3.42	4.91	4.23			5.42		
27	5.27	3.42	5.79	2.62	6.50	2.25	7.02	2.78	NR	NR	2.40	5.19	27
	5.12	2.28	4.50	2.40	4.79	3.88	5.46	4.24			2.64	5.61	
28	5.46	2.98	5.70	2.15	6.90	2.62	7.03	2.75	NR	NR	2.39	5.15	28
	5.10	2.57	4.50	2.72	5.35	4.31	5.21	3.67			2.90	5.84	
29	5.69	2.61	6.09	2.20	7.16	2.58	6.67	2.39	NR	NR	2.49	5.18	29
	4.94	2.64	4.92	3.42	5.33	4.10	5.13	3.26			3.21	6.00	
30	5.92	2.54	6.72	2.72	7.02	2.48	6.35	2.30	NR	NR	2.64	5.31	30
	5.10	2.85	5.66	4.41	5.28	3.85	4.79				3.70	6.25	
31			7.44	2.92			2.71	5.66	NR	NR			31
			5.79	4.53			1.85	4.86					
MAXIMUM	6.58		NR		7.52		7.10		NR		NR		MAXIMUM
MINIMUM	1.53		NR		1.79		1.85		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 10.0 - 12/26/55

ZERO OF GAGE: 1945 -3.00 USCGS
 1964 -3.58 USCGS
 1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

894175 MOKELUMNE RIVER NEAR THORNTON
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	3.80 3.16	0.65 1.63	2.34 2.81	0.08 0.23	2.27 3.52	0.98 0.68	-0.02 1.32	2.24 3.64	5.76 5.70	5.92 6.08	9.58A 8.52A	8.52A	1
2	3.70 2.99	0.57 1.27	2.22 2.88	0.16 0.18	2.63 3.82	1.44	0.09 1.56	2.46 3.89	5.26 5.08	5.42 5.53	8.50A 7.07A	7.07A	2
3	3.57 3.24	0.66 1.34	2.39 3.25	0.51	0.79 1.62	2.75 3.95	0.54 1.72	2.88 3.93	4.64 4.57	4.94 5.25	7.05A 6.20A	6.20A	3
4	3.58 3.29	0.86 1.04	0.42 0.94	2.68 3.50	1.07 2.09	3.21 4.24	0.37 1.53	2.64 3.84	4.34 4.40	4.81 5.20	5.98A 6.89A	6.89A	4
5	3.20 3.09	0.61	0.46 0.89	2.54 3.31	0.96 1.82	2.88 3.97	0.26 1.37	2.59 3.68	4.58 4.87	5.15 5.39	6.90A 7.56A	7.56A	5
6	0.61 0.62	2.93 3.18	0.10 1.01	2.35 3.49	0.82 2.19	3.23 4.17	0.12 1.20	2.55 3.58	4.85 4.93	5.36 5.37	7.06 6.57	7.17 6.68	6
7	0.53 0.87	2.96 3.61	0.29 1.51	2.57 3.87	0.97 2.18	3.13 4.29	0.15 1.16	2.71 3.36	4.80A 5.73A	5.73A	6.13A 6.99A	6.99A	7
8	0.86 1.15	3.06 3.59	0.42 1.25	2.46 3.37	0.99 1.95	3.06 3.86	0.03 0.92	2.63 3.16	5.73A 7.42A	7.42A	6.93 6.88	7.30	8
9	0.67 1.19	2.83 3.68	-0.01 1.26	2.26 3.33	0.49 1.64	2.68 3.46	0.43 2.01	3.52 3.64	7.50A 6.83A	6.83A	7.34A 8.40A	8.40A	9
10	0.65 1.33	2.80 3.67	0.05 1.68	2.61 3.47	0.24 1.46	2.55 3.13	1.65 3.52	3.90	6.54 6.45	6.89	8.01A 6.81A	6.81A	10
11	0.58 1.48	2.72 3.64	0.50 2.12	3.16 3.49	0.15 1.47	2.80 2.95	5.05A 6.67A	6.67A	6.85A 9.67A	9.67A	6.43 5.98	6.64	11
12	0.53 1.68	2.61 3.67	0.30 1.58	2.65 2.87	0.13 1.11	2.82 2.28	6.00A 9.50A	9.50A	9.68A 10.23A	10.23A	6.57A 6.00A	6.00A	12
13	0.38 1.77	2.48 3.66	0.13 1.92	2.82 3.17	-0.08 0.81	2.89 2.01	9.54A 10.58A	10.58A	10.15A 9.01A	9.01A	6.16A 5.38A	5.38A	13
14	0.42 1.84	2.64 3.42	0.77 1.87	3.44 3.01	0.05 0.12	2.83	10.16A 8.54A	8.54A	8.99A 8.30A	8.30A	5.49 5.51	5.22	14
15	0.49 2.08	2.96 3.41	0.79 1.13	3.21	1.49 3.03	0.03 0.06	8.51A 7.50A	7.50A	8.23A 8.79A	8.79A	4.85 4.52	5.05 4.85	15
16	0.31 1.48	2.79	3.09 3.63	0.76 1.19	1.70 3.39	0.45 0.11	7.36A 8.63A	8.63A	8.68A 8.09A	8.09A	3.35 3.31	3.88 4.22	16
17	2.99 2.83	0.19 1.15	2.97 4.01	1.22 1.52	2.03 3.97	0.99	8.70A 11.98A	11.98A	8.07A 7.31A	7.31A	2.84 3.26	3.94 4.33	17
18	3.03 3.04	0.42 1.03	3.13 4.11	1.53	0.51 1.35	2.48 4.01	11.95A 10.42A	10.42A	7.29A 6.66A	6.66A	3.47 3.41	4.25 4.15	18
19	3.17 3.39	0.77 1.24	1.06 1.29	2.95 4.11	0.62 1.68	2.76 4.31	10.38A 10.71A	10.71A	6.38 6.13	6.56 6.30	3.28 3.26	4.17 4.12	19
20	3.30 3.70	0.98	0.59 1.14	2.84 4.02	0.91 1.82	2.84 4.33	10.52A 8.89A	8.89A	5.86 5.74	6.16 5.91	3.47 3.58	4.52 4.36	20
21	1.25 0.95	3.10 3.55	0.29 1.22	2.74 4.01	1.18 1.83	2.90 4.28	8.87A 7.85A	7.85A	5.52 5.09	5.83 5.22	4.14A 5.42A	5.42A	21
22	0.56 0.86	2.77 3.65	0.15 1.30	2.76 4.06	1.07 2.01	3.37 4.28	7.84A 7.12	7.12	4.68 4.43	5.23 4.61	5.09 4.98	5.47	22
23	0.40 0.94	2.69 3.76	0.21 1.33	2.83 3.94	1.01 1.80	3.19 3.88	7.10A 6.31A	6.31A	4.24 4.11	4.92	5.57A 6.18A	6.18A	23
24	0.37 1.11	2.68 3.92	0.11 1.20	2.80 3.61	1.21 1.62	3.25 3.25	5.92 5.76	6.22 5.79	5.16A 4.08A	4.08A	5.31 4.65	5.52 4.78	24
25	0.42 1.31	2.72 3.96	-0.20 0.84	2.62 3.05	0.69 1.32	3.02 2.77	5.49 5.45	5.93	4.21 4.64	3.96 3.46	4.59 4.06	4.94	25
26	0.49 1.65	2.89 4.09	-0.50 0.76	2.51 2.79	0.50 1.00	3.03 2.40	5.31A 5.84A	5.84A	3.91 4.60	3.82 3.55	4.34 4.57	4.20 3.63	26
27	0.59 1.65	2.92 3.80	-0.35 1.31	2.98 2.79	0.57 1.09	3.47	5.98A 5.29A	5.29A	3.57A 4.99A	4.99A	4.06 4.24	3.93 3.25	27
28	0.37 1.61	2.91 3.52	0.57 1.07	3.27	2.53 3.46	1.03 0.66	5.42A 4.67A	4.67A	4.90A 9.36A	9.36A	3.91 3.90	3.66 2.93	28
29	0.18 0.90	2.57 2.56	2.47 3.15	0.59 0.67	2.03 3.49	0.93 0.40	4.64 4.79	4.86 5.45			3.60 3.72	3.26 2.76	29
30	-0.47 0.34	2.08	2.22 3.33	0.75 0.61	2.07 3.46	1.12 0.11	4.54 4.61	4.81 5.15			3.54 3.74	3.07	30
31	2.37 2.65	-0.15 0.38			2.11 3.39	1.21	4.39A 6.21A	6.21A			2.74 2.84	3.62 3.65	31
MAXIMUM	4.09		4.11		4.33		11.98A		10.23A		9.58A		MAXIMUM
MINIMUM	-0.47		-0.50		-0.08		-0.02A		3.55A		2.74A		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 15 20, LONG. 121 26 21, NW SEC. 28 T5N, R5E
AT HIGHWAY BRIDGE, 2.3 MILES NORTHWEST OF THORNTON.
AT TIMES, TIDAL FLUCTUATION IS INFLUENCED BY OPERATION
OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: FEB. 1959 TO DATE

TABLE 8-12 (CONTINUED)

DAILY TIDES

894175 MOKELUMNE RIVER NEAR THORNTON
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.60	3.68	3.76	1.54	4.88	1.94	1.06	3.86	0.97	3.51	0.75	2.65	1
	2.78	3.52	2.95	1.81	3.30		-0.25	2.50	0.54	3.22	0.63	3.42	
2	2.55	3.49	3.86	1.32	2.52	4.69	0.86	3.70	1.03	3.23	0.63	2.42	2
	2.37	3.17	2.79		1.77	3.22	-0.20	2.53	0.49	3.31	0.81	3.41	
3	2.27	3.46	1.70	3.88	2.34	4.49	0.65	3.30	0.89	2.91	0.39	2.20	3
	2.06	2.97	1.15	2.92	1.57	3.21	-0.48	2.51	0.58	3.41	0.99	3.41	
4	2.03	3.53	1.87	4.28	2.21	4.20	0.45	2.87	0.82	2.59	0.44	2.59	4
	2.23	3.29	1.43	3.07	1.32	3.21	-0.64	2.55	0.68	3.60	1.92	4.00	
5	2.62	3.99	2.08	4.20	2.07	2.83	0.35	2.60	0.81	2.52	0.77	2.13	5
	2.46	3.38	1.20	2.97	1.02	3.05	-0.35	2.86	1.08	3.80	1.75		
6	2.83	4.29	2.02	3.97	1.67	3.13	0.26	2.28	0.79	2.55	3.48	0.17	6
	2.59	3.42	0.96	2.74	0.57		-0.16		1.56		2.21	1.23	
7	2.89	4.20	1.84	3.75	3.03	1.34	2.99	0.01	4.00	0.73	3.22	0.02	7
	2.30	3.15	0.90	2.89	2.57	0.29	1.81	-0.18	2.50	1.69	2.19	1.03	
8	2.70	3.95	1.69	3.31	3.08	0.95	3.05	-0.24	3.96	0.67	3.03	-0.17	8
	2.12		0.40		2.17	0.94	1.66	0.19	2.69	1.83	2.27	0.86	
9	3.14	2.79	2.74	1.34	3.35	0.94	3.21	-0.44	3.94	0.51	3.09	0.04	9
	3.87	2.08	2.82	0.32	2.35	1.23	1.72	0.58	2.57	1.63	2.57	1.22	
10	3.20	2.77	2.75	1.01	3.72	1.22	3.43	-0.28	3.76	0.28	3.63	0.79	10
	3.70	2.04	2.36	0.20	2.54	1.66	2.11	1.06	2.50	1.36	3.03	1.17	
11	3.34	2.68	2.91	0.97	3.85	1.30	3.62	-0.25	3.69	0.25	3.35	0.96	11
	3.60	1.80	2.45	0.69	2.72	1.93	2.33	1.35	2.65	1.40	2.80		
12	3.34	2.42	3.30	1.21	4.00	1.16	3.73	-0.19	3.76	0.38	0.77	3.09	12
	3.51	2.00	2.69	1.17	2.70	1.96	2.49	1.53	2.71	1.21	0.93	2.90	
13	3.49	2.35	3.56	1.36	3.97	1.02	3.90	0.68	3.58	0.27	0.72	3.01	13
	3.47	2.12	2.93	1.53	2.74	2.01	3.08	2.14	2.54		0.67	3.22	
14	3.50	2.25	3.76	1.50	4.06	0.87	4.33	0.83	0.92	3.44	0.78	2.82	14
	3.30	2.38	3.05	1.80	2.49		3.24	2.11	0.24	2.64	0.68	3.20	
15	3.70	2.50	3.78	1.26	1.73	3.72	4.23	0.73	0.87	3.36	0.59	2.66	15
	3.44		2.82	1.75	0.62	2.60	3.03		0.39	2.85	0.80	3.42	
16	2.47	3.75	3.72	1.26	2.05	3.89	1.83	4.03	0.83	3.12	0.66	2.58	16
	2.29	3.27	2.82		0.63	2.65	0.63	2.96	0.33	2.89	0.98	3.63	
17	2.39	3.78	1.98	3.83	1.83	3.82	1.60	3.82	0.61	2.83	0.59	2.40	17
	2.17	3.42	1.38	2.86	0.26	2.38	0.48	3.02	0.32	3.12	1.06	3.67	
18	2.52	3.70	2.20	3.97	1.40	3.30	1.51	3.62	0.69	2.68	0.57	2.38	18
	1.79	3.12	1.62	3.20	-0.09	2.22	0.53	3.08	0.44	3.17	1.31	3.77	
19	2.53	3.81	2.66	4.26	1.26	3.13	1.37	3.34	0.48	2.35	0.55	2.44	19
	1.86	2.89	1.88	3.27	-0.28	2.33	0.48	3.10	0.48	3.33	1.55	3.72	
20	2.30	3.47	2.57	3.95	1.05	2.94	1.16	2.99	0.28	2.01	0.39	2.49	20
	1.46	2.60	1.45	2.94	-0.42	2.39	0.37	3.17	0.61	3.49	1.43	3.56	
21	2.17	3.42	2.35	3.76	0.91	2.67	0.81	2.34	0.27	2.03	0.29	2.44	21
	1.30	2.57	1.32	3.09	-0.38	2.71	0.14	3.14	1.08	3.64	1.67		
22	2.18	3.40	2.44	3.55	1.08	2.72	0.55	2.03	0.13	2.08	3.43	0.43	22
	1.20	2.71	0.64		0.01		0.37	3.43	1.21		2.66	1.07	
23	2.41	3.43	2.76	1.79	2.89	0.59	0.45	1.86	3.73	0.20	3.39	0.51	23
	1.14		3.00	0.48	1.96	-0.21	0.63	3.52	2.40	1.48	2.81	1.04	
24	2.76	2.43	2.95	1.60	2.92	0.24	0.07	1.69	3.80	0.09	3.36	0.68	24
	3.16	0.85	2.75	0.70	1.70	0.14	0.72		2.32	1.14	3.18	1.05	
25	2.70	2.20	2.90	1.71	3.30	0.12	3.61	-0.06	3.79	0.23	3.14	0.57	25
	2.87	0.86	2.55	0.99	1.63	0.09	1.88	1.00	2.50	1.02	2.87		
26	2.86	2.09	3.27	1.60	3.37	-0.44	3.88	0.13	3.72	0.46	0.59	2.84	26
	2.77	1.00	2.32	1.14	1.80	0.56	2.29	1.51	2.98	1.22	0.51	2.90	
27	3.13	2.06	3.39	1.37	3.66	-0.43	4.39	0.70	3.77	0.58	0.45	2.66	27
	3.00	1.37	2.15	1.04	2.06	0.97	2.93	1.77	2.88		0.59	3.09	
28	3.37	1.95	3.32	1.00	3.96	0.01	4.47	0.85	0.84	3.39	0.46	2.64	28
	3.06	1.69	2.14	1.18	2.61	1.46	3.05	1.58	0.30	2.86	0.76	3.29	
29	3.54	1.85	3.62	1.02	4.20	0.04	4.31	0.73	0.66	3.20	0.50	2.65	29
	2.98	1.78	2.48	1.62	2.60	1.27	2.98		0.42	3.17	0.99	3.44	
30	3.75	1.82	4.17	1.51	4.08	-0.06	1.28	4.05	0.89	3.30	0.62	2.78	30
	3.04	1.84	3.21	2.42	2.57		0.59	3.01	0.90	3.51	1.42	3.68	
31			4.77	1.89			1.11	3.81	0.95	3.00			31
			3.31	2.59			0.47	3.07	0.53	3.53			
MAXIMUM	4.29		4.77		4.69		4.47		4.00		4.00		MAXIMUM
MINIMUM	0.85		0.20		-0.44		-0.64		0.09		-0.17		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 14.5 - 2/2/63

ZERO OF GAGE: 1959 0.40 USCGS
1964 -0.48 USCGS
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

894150 MOKELUMNE RIVER, SOUTH FORK, AT NEW HOPE BRIDGE
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	3.93 3.21	0.60 1.64	2.40 2.91	0.08 0.21	2.27 3.62	0.96 0.60	2.17 3.59	1.12	1.02 1.98	3.08 4.16	4.12 4.81	3.48	1
2	3.84 3.06	0.53 1.26	2.27 2.98	0.16 0.16	2.64 3.96	1.43 0.70	-0.30 1.38	2.40 3.88	0.89 1.79	3.10 4.20	2.47 2.54	3.83 4.29	2
3	3.71 3.34	0.63 1.33	2.45 3.39	0.51 0.36	2.77 4.12	1.62 0.98	0.17 1.53	2.83 3.92	0.92 1.84	3.34 4.41	1.71 2.10	3.62 4.46	3
4	3.70 3.38	0.84 1.03	2.74 3.62	0.92	3.25 4.44	2.08	-0.02 1.35	2.59 3.83	1.16 1.95	3.70 4.45	1.82 2.09	4.00 4.42	4
5	3.30 3.18	0.59 0.58	0.41 0.87	2.58 3.41	0.86 1.81	2.90 4.13	-0.12 1.18	2.53 3.65	1.23 1.67	3.70 3.91	1.92 2.21	4.18 4.26	5
6	3.02 3.30	0.59	0.05 0.97	2.39 3.56	0.72 2.18	3.28 4.32	-0.21 1.02	2.49 3.56	1.09 1.81	3.90 4.03	2.02 2.17	4.43 4.22	6
7	0.52 0.87	3.05 3.80	0.18 1.46	2.56 3.99	0.84 2.16	3.14 4.49	-0.15 0.98	2.64 3.32	1.65 1.85	4.38 3.63	2.03 1.94	4.49 3.87	7
8	0.84 1.14	3.14 3.74	0.33 1.25	2.47 3.44	0.86 1.95	3.07 3.96	-0.26 0.72	2.57 3.10	1.57 1.86	4.26 3.28	2.15 1.96	4.66 3.74	8
9	0.65 1.19	2.91 3.84	-0.08 1.28	2.26 3.39	0.38 1.63	2.67 3.49	0.13 1.70	3.46 3.57	1.89 1.82	4.43 3.35	2.42 2.16	4.82 3.45	9
10	0.63 1.34	2.85 3.81	-0.03 1.70	2.62 3.51	0.15 1.46	2.55 3.14	0.57 1.14	3.58 2.70	2.54 2.04	5.02	2.40 1.75	4.51 3.45	10
11	0.54 1.50	2.76 3.72	0.40 2.11	3.16 3.50	0.08 1.45	2.83 2.96	0.65 1.43	3.82 2.63	3.47 5.55	2.99 3.37	2.55 1.33	4.58	11
12	0.45 1.69	2.61 3.74	0.16 1.55	2.61 2.85	0.06 1.08	2.85 2.27	1.20 1.69	4.21	4.46 5.81	4.05 3.91	3.11 4.11	2.41 1.15	12
13	0.31 1.82	2.49 3.74	0.00 1.89	2.81 3.16	-0.12 0.77	2.93 2.00	2.89 5.25	2.65 3.52	5.10 5.81	4.52 3.30	3.33 3.98	2.47 0.81	13
14	0.36 1.89	2.65 3.44	0.63 1.81	3.45 2.99	0.02 0.08	2.87	4.20 5.16	3.63 2.37	4.46 5.58	3.59	2.85 3.56	1.53 0.45	14
15	0.45 2.10	2.98 3.45	0.67 1.00	3.20	1.47 3.09	0.01 0.00	3.60 5.45	2.97 2.35	2.79 3.01	4.16 5.19	2.96 3.65	1.30 0.35	15
16	0.25 1.49	2.82 3.01	3.07 3.59	0.54 0.84	1.68 3.48	0.44 0.03	4.25 6.46	3.78	2.60 2.88	4.21 4.93	3.02 3.64	0.96	16
17	0.15 1.14	2.87	2.91 3.95	0.77 0.83	2.02 4.16	0.98 0.40	3.27 4.58	4.91 6.94	2.26 2.45	4.08 4.63	0.50 1.05	3.40 3.70	17
18	3.08 3.10	0.38 1.00	3.04 4.08	0.99 0.63	2.46 4.06	1.32	5.57 6.17	6.87 7.51	1.91 2.11	4.05 4.33	0.78 0.76	3.50 3.39	18
19	3.24 3.47	0.73 1.06	2.90 4.17	1.07	0.02 1.25	2.68 4.29	5.14 5.31	6.15 6.75	1.76 1.86	4.13 3.91	0.65 0.67	3.50 3.37	19
20	3.31 3.66	0.88 0.89	0.32 1.02	2.80 4.10	0.14 1.23	2.70 4.27	4.74 4.45	5.67 5.67	1.58 1.72	4.10 3.65	1.10 1.14	4.05 3.53	20
21	3.09 3.62	0.82	0.11 1.17	2.71 4.11	0.16 1.32	2.80 4.25	3.32 3.21	4.74 4.71	1.60 1.63	4.18 3.45	1.17 0.87	3.83 3.34	21
22	0.44 0.79	2.79 3.76	0.01 1.27	2.75 4.20	0.36 1.60	3.30 4.27	2.43 2.65	4.38 3.84	1.68 1.36	4.22 2.95	1.39 0.57	3.75 2.75	22
23	0.31 0.89	2.72 3.92	0.08 1.30	2.82 4.07	0.35 1.20	3.11 3.81	1.76 2.01	3.99 3.14	1.60 1.12	3.98 2.97	1.32 0.58	3.59 2.58	23
24	0.28 1.07	2.72 4.13	0.01 1.19	2.80 3.68	0.23 0.85	3.11 3.11	1.43 1.81	4.01 2.77	2.33 1.66	4.59	1.52 0.35	3.45 2.48	24
25	0.33 1.30	2.75 4.16	-0.25 0.84	2.62 3.08	-0.20 0.56	2.87 2.60	1.48 1.69	4.10 2.46	2.89 3.97	2.13 0.84	1.73 0.41	3.42 2.58	25
26	0.40 1.64	2.93 4.34	-0.56 0.70	2.56 2.80	-0.34 0.38	2.91 2.27	1.51 1.20	3.85	2.70 3.99	2.16 0.87	1.84 0.23	3.26	26
27	0.53 1.67	2.97 3.94	-0.45 1.27	3.26 2.80	0.02 0.60	3.40	2.01 3.59	1.46 0.78	2.96 4.22	2.19 1.36	2.54 2.95	1.82 0.15	27
28	0.31 1.64	2.96 3.61	0.50 1.02	3.32	2.45 3.42	0.66 0.21	2.01 3.67	1.61 0.72	3.52 4.54	2.73 2.26	2.54 2.49	1.43 -0.41	28
29	0.14 0.92	2.63 2.62	2.47 3.20	0.54 0.61	1.95 3.42	0.60 -0.10	2.81 4.52	2.35 1.14			2.09 2.34	0.69 -0.46	29
30	-0.50 0.35	2.13	2.21 3.39	0.72 0.54	1.98 3.41	0.82 -0.34	3.27 4.39	2.47			2.24 2.60	0.54 -0.31	30
31	2.42 2.74	-0.16 0.37			2.05 3.35	0.98 -0.42	1.01 2.34	3.30 4.29			2.55 2.82	0.38 0.09	31
MAXIMUM	4.34		4.20		4.49		7.51		5.81		4.82		MAXIMUM
MINIMUM	-0.50		-0.56		-0.42		-0.30		0.84		-0.46		MINIMUM

LOCATION: LAT. 38 13 33, LONG. 121 29 24, NW SEC. 1, T4N, R4E
SOUTH OF WALNUT GROVE-THORNTON HIGHWAY BRIDGE, 3.8 MILES
WEST OF THORNTON. AT TIMES, TIDAL FLUCTUATION IS
INFLUENCED BY OPERATION OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: AUG. 1920 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

894150 MOKELUMNE RIVER, SOUTH FORK, AT NEW HOPE BRIDGE
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.83 2.44	0.14 -0.24	3.63 2.63	0.24 0.82	4.95 3.15	0.83 1.84	3.95 2.49	-0.42	0.87 0.40	3.56 3.25	0.59 0.49	2.64 3.47	1
2	2.52 2.05	-0.46	3.77 2.53	0.17 0.86	4.71 3.05	0.59	0.76 -0.37	3.75 2.51	0.90 0.33	3.24 3.34	0.49 0.72	2.41 3.47	2
3	-0.33 -0.65	2.67 2.02	3.82 2.72	0.08 1.21	1.63 0.46	4.48 3.05	0.55 -0.61	3.30 2.48	0.78 0.44	2.90 3.42	0.29 0.93	2.19 3.45	3
4	-0.25 -0.23	2.94 2.51	4.26 2.92	0.43	1.54 0.33	4.16 3.07	0.35 -0.78	2.87 2.50	0.67 0.56	2.56 3.65	0.36 1.91	2.57 4.14	4
5	0.91 0.51	3.64 2.71	1.40 0.13	4.17 2.79	1.43 0.10	3.80 2.91	0.20 -0.47	2.56 2.85	0.71 1.01	2.50 3.85	0.69 1.71	2.61 3.52	5
6	1.36 0.75	4.08 2.78	1.29 -0.09	3.93 2.54	1.01 -0.23	3.03 2.90	0.16 -0.28	2.25 2.99	0.64 1.54	2.52 4.08	0.06 1.22	2.20	6
7	1.53 0.45	3.97 2.48	1.22 0.06	3.70 2.76	0.71 -0.34	2.48 3.00	-0.12 -0.26	1.76	0.59 1.68	2.49	3.25 2.18	-0.10 1.00	7
8	1.39 0.23	3.63 2.46	1.13 -0.36	3.22 2.61	0.43 -0.14	2.09	3.04 1.61	-0.34 0.11	4.04 2.68	0.52 1.79	3.06 2.26	-0.25 0.79	8
9	1.54 0.20	3.49	0.79 -0.40	2.71	3.29 2.17	0.34 0.51	3.21 1.68	-0.53 0.57	4.00 2.56	0.36 1.59	3.12 2.58	-0.11 1.15	9
10	2.55 3.23	1.49 0.22	2.63 2.22	0.39 -0.56	3.63 2.33	0.39 0.99	3.45 2.09	-0.32 1.08	3.82 2.48	0.12 1.33	3.71 3.06	0.67 1.09	10
11	2.78 3.15	1.32 0.30	2.77 2.27	0.24 -0.12	3.91 2.54	0.37 1.32	3.66 2.31	-0.33 1.37	3.77 2.66	0.14 1.40	3.41 2.82	0.36 0.70	11
12	2.95 3.13	1.14 0.49	3.17 2.49	0.37 0.37	3.96 2.60	0.29 1.45	3.77 2.47	-0.27 1.53	3.87 2.72	0.27 1.19	3.16 2.95	0.32	12
13	3.13 3.06	0.96 0.56	3.47 2.74	0.48 0.67	3.96 2.59	0.18 1.54	3.97 3.08	0.58 2.14	3.67 2.54	0.17 0.87	0.63 0.56	3.07 3.27	13
14	3.10 2.70	0.61 0.54	3.66 2.86	0.45 0.99	4.04 2.36	0.04 1.26	4.50 3.22	0.71 2.08	3.51 2.69	0.14	0.61 0.51	2.85 3.25	14
15	3.20 2.80	0.56 0.73	3.70 2.61	0.22 0.98	3.67 2.47	-0.25 1.64	4.35 3.01	0.55 1.76	0.82 0.27	3.43 2.90	0.42 0.61	2.65 3.46	15
16	3.34 2.68	0.45 0.86	3.64 2.49	0.04 1.07	3.89 2.59	-0.02	4.10 2.96	0.45	0.76 0.25	3.18 2.96	0.46 0.82	2.56 3.68	16
17	3.47 3.05	0.56	3.72 2.52	0.07 1.29	1.56 -0.29	3.82 2.33	1.56 0.36	3.88 3.02	0.57 0.24	2.87 3.17	0.34 0.87	2.36 3.70	17
18	1.29 0.24	3.42 2.66	3.85 2.89	0.22	1.13 -0.61	3.26 2.14	1.45 0.40	3.65 3.07	0.56 0.36	2.69 3.25	0.28 1.16	2.32 3.83	18
19	1.36 0.12	3.51 2.32	1.85 0.55	4.18 2.97	1.00 -0.59	3.08 2.29	1.31 0.33	3.34 3.09	0.41 0.43	2.35 3.40	0.27 1.43	2.38 3.74	19
20	1.07 -0.15	3.09 2.04	1.75 0.17	3.82 2.63	0.96 -0.62	2.90 2.36	1.08 0.22	2.98 3.16	0.18 0.59	2.02 3.58	0.10 1.28	2.45 3.58	20
21	1.14 -0.18	3.11 2.10	1.59 0.17	3.61 2.85	0.81 -0.56	2.66 2.70	0.70 -0.01	2.30 3.14	0.17 1.08	2.04 3.74	0.00 0.99	2.40	21
22	1.29 -0.15	3.11 2.31	1.77 -0.47	3.38 2.57	1.00 -0.13	2.71 2.91	0.44 0.21	1.99 3.46	0.01 1.22	2.07 3.84	3.43 2.62	0.14 0.90	22
23	1.67 -0.07	3.18 2.42	1.16 -0.42	2.84 2.80	0.52 -0.32	1.94 2.92	0.27 0.54	1.83 3.56	0.09 1.45	2.40	3.38 2.77	0.22 0.79	23
24	1.78 -0.21	2.89	0.97 -0.13	2.59 2.75	0.12 0.01	1.69	-0.05 0.70	1.67	3.90 2.32	-0.05 1.13	3.35 3.13	0.36 0.75	24
25	2.43 2.59	1.57 -0.19	1.10 0.21	2.36	3.31 1.58	-0.02 0.03	3.66 1.87	-0.20 1.00	3.94 2.50	0.08 0.89	3.11 2.83	0.23 0.31	25
26	2.58 2.45	1.30 -0.13	3.15 2.01	0.84 0.21	3.39 1.78	-0.56 0.49	3.98 2.26	-0.04 1.50	3.82 2.97	0.24 1.08	2.80 2.87	0.21	26
27	2.86 2.69	1.14 0.23	3.24 1.86	0.44 0.15	3.70 2.04	-0.56 0.95	4.60 2.91	0.54 1.72	3.87 2.89	0.39 0.70	0.15 0.30	2.62 3.07	27
28	3.13 2.73	0.85 0.52	3.17 1.86	0.04 0.39	4.07 2.60	-0.14 1.42	4.67 3.04	0.65 1.49	3.44 2.87	0.13	0.13 0.50	2.58 3.28	28
29	3.32 2.59	0.57 0.55	3.53 2.31	0.12 0.97	4.33 2.59	-0.15 1.21	4.49 2.98	0.51 1.18	0.52 0.24	3.24 3.22	0.20 0.74	2.60 3.43	29
30	3.59 2.70	0.47 0.69	4.14 3.05	0.60 1.83	4.20 2.55	-0.24 0.97	4.17 2.99	0.39	0.74 0.74	3.34 3.58	0.32 1.20	2.73 3.70	30
31			4.82 3.18	0.85 2.04			1.00 0.32	3.88 3.08	0.76 0.75	2.99 3.55			31
MAXIMUM	4.08		4.82		4.95		4.67		4.08		4.14		MAXIMUM
MINIMUM	-0.65		-0.56		-0.62		-0.78		-0.05		-0.25		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 13.3 - 12/25/55

ZERO OF GAGE: 1920 TO 1940 0.26 USED
1940 0.00 USCGS
1964 -0.62 USCGS
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

R94120 LITTLE POTATO SLOUGH AT TERMINOUS
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	0.01 1.24	3.03	2.24 2.74	-0.39 -0.25	2.01 3.41	0.38 -0.15	2.04 3.52	1.06 -0.50	2.78 3.93	1.51	3.33 4.15	2.05 0.85	1
2	3.67 2.89	-0.04 0.89	2.12 2.81	-0.28 -0.32	2.41 3.76	0.90 -0.06	2.30 3.84	1.32 0.01	0.15 1.38	2.85 3.97	3.29 3.98	1.60 0.70	2
3	3.54 3.15	0.10 0.93	2.29 3.20	0.11 -0.14	2.54 3.88	1.10 0.20	2.73 3.91	1.46	0.29 1.51	3.11 4.23	3.29 4.17	1.40 1.01	3
4	3.52 3.22	0.32 0.62	2.58 3.44	0.54 -0.10	3.05 4.29	1.61	-0.21 1.32	2.50 3.82	0.60 1.55	3.46 4.27	3.73 4.16	1.46	4
5	3.13 3.02	0.10 0.11	2.42 3.25	0.53	0.16 1.38	2.71 3.96	-0.32 1.10	2.43 3.61	0.68 1.23	3.48 3.69	1.04 1.33	3.85 3.92	5
6	2.86 3.14	0.17 0.04	-0.47 0.62	2.23 3.40	-0.13 1.67	3.01 4.13	-0.40 0.95	2.40 3.52	0.49 1.31	3.66 3.79	1.10 1.35	4.09 3.93	6
7	2.90 3.64	0.44	-0.37 1.11	2.40 3.84	0.12 1.75	2.94 4.32	-0.33 0.89	2.56 3.26	1.14 1.36	4.18 3.39	1.32 1.12	4.23 3.55	7
8	0.40 0.74	2.98 3.59	-0.23 0.93	2.31 3.29	0.16 1.58	2.90 3.82	-0.44 0.61	2.51 2.96	0.98 1.04	3.98 2.94	1.39 1.09	4.38 3.42	8
9	0.17 0.82	2.74 3.70	-0.64 0.99	2.11 3.24	-0.28 1.24	2.51 3.33	-0.12 1.51	3.29 3.45	1.11 0.91	4.12 2.97	1.67 0.95	4.49 2.97	9
10	0.11 0.99	2.69 3.68	-0.58 1.40	2.44 3.34	-0.54 1.08	2.39 2.97	0.29 0.84	3.41 2.45	1.99 1.27	4.77	1.56 0.79	4.19 3.11	10
11	0.02 1.15	2.60 3.58	-0.18 1.80	3.03 3.36	-0.58 1.05	2.65 2.79	0.07 0.70	3.51 2.27	3.16 5.26	2.43 1.76	2.04 0.59	4.34	11
12	-0.08 1.38	2.44 3.59	-0.46 1.18	2.44 2.67	-0.58 0.66	2.67 2.11	0.57 0.63	3.92	3.55 5.07	2.63 1.46	2.89 3.98	2.05 0.35	12
13	-0.23 1.54	2.36 3.61	-0.69 1.38	2.56 2.87	-0.72 0.28	2.74 1.81	2.16 4.24	1.06 0.74	3.80 5.05	2.79 1.37	3.03 3.87	2.05 0.09	13
14	-0.17 1.61	2.51 3.33	-0.13 1.23	3.24 2.74	-0.53 -0.50	2.69	2.43 4.38	1.60 0.58	3.72 5.24	2.47 1.47	2.61 3.40	1.19 -0.23	14
15	-0.08 1.83	2.83 3.30	-0.09 0.83	3.11	1.27 2.92	-0.48 -0.58	2.97 5.11	2.11 1.21	3.75 4.85	2.13	2.70 3.43	0.88 -0.16	15
16	-0.29 1.15	2.68 2.87	2.95 3.54	0.37 0.66	1.49 3.30	0.01 -0.62	3.70 6.19	3.01	1.17 1.83	3.74 4.58	2.80 3.45	0.62 0.10	16
17	-0.39 0.74	2.72	2.78 3.91	0.61 0.59	1.83 3.48	0.53 -0.28	2.08 2.90	4.26 5.77	1.07 1.58	3.74 4.31	3.20 3.51	0.72 0.36	17
18	2.91 2.93	-0.16 0.54	2.89 4.05	0.80 0.40	2.26 4.07	0.85 -0.23	2.01 3.74	4.74 6.51	0.94 1.37	3.72 4.05	3.30 3.18	0.36	18
19	3.08 3.28	0.20 0.52	2.79 4.21	0.93 0.12	2.54 4.31	1.13	2.75 3.09	4.83 5.60	0.95 1.19	3.84 3.64	0.25 0.21	3.29 3.16	19
20	3.12 3.45	0.38 0.30	2.71 4.15	0.90	-0.12 1.10	2.56 4.27	2.06 2.47	4.24 4.90	0.91 1.11	3.86 3.37	0.75 0.73	3.89 3.33	20
21	2.90 3.42	0.33 -0.14	-0.11 1.08	2.65 4.18	-0.15 1.17	2.64 4.24	1.60 2.15	4.23 4.37	1.03 1.08	3.96 3.20	0.77 0.21	3.59 3.08	21
22	2.61 3.58	0.33	-0.18 1.20	2.69 4.27	0.06 1.45	3.17 4.26	1.32 1.78	4.06 3.52	1.30 0.90	4.00 2.71	0.94 -0.02	3.52 2.49	22
23	-0.28 0.45	2.54 3.76	-0.13 1.21	2.77 4.12	0.10 1.06	2.98 3.72	0.86 1.26	3.68 2.85	1.31 0.70	3.79 2.71	0.85 -0.15	3.33 2.29	23
24	-0.31 0.74	2.56 4.03	-0.17 1.12	2.77 3.70	-0.03 0.76	3.00 3.00	0.73 1.16	3.74 2.50	2.08 1.26	4.37 2.69	1.12 -0.24	3.21 2.24	24
25	-0.24 0.94	2.60 4.03	-0.42 0.76	2.59 3.05	-0.42 0.39	2.72 2.46	0.93 1.12	3.86 2.21	1.95 0.48	3.79	1.47 -0.06	3.21 2.37	25
26	-0.16 1.32	2.78 4.20	-0.69 0.62	2.55 2.76	-0.54 0.22	2.79 2.12	1.06 0.56	3.61	2.52 3.78	2.00 0.49	1.65 -0.22	3.08	26
27	-0.01 1.36	2.85 3.81	-0.58 0.60	2.83 2.54	-0.13 0.45	3.31 2.32	1.71 3.32	1.01 0.11	2.75 4.02	2.01 0.81	2.35 2.82	1.64 -0.25	27
28	-0.25 1.27	2.79 3.48	-0.27 0.33	3.10 2.21	0.57 0.10	3.52	1.71 3.44	1.25 0.13	3.28 4.24	2.34 0.81	2.37 2.39	1.24 -0.81	28
29	-0.40 0.63	2.56 2.51	-0.17 -0.13	2.96	1.85 3.39	0.52 -0.27	2.57 4.30	2.09 0.55			1.92 2.16	0.45 -0.88	29
30	-0.98 -0.02	2.09	1.95 3.17	0.09 -0.22	1.84 3.32	0.75 -0.53	3.05 4.21	2.22 0.40			2.02 2.35	0.25 -0.76	30
31	2.29 2.58	-0.64 -0.06			1.91 3.42	0.92 -0.58	3.04 4.07	1.98 0.19			2.32 2.61	0.06 -0.29	31
MAXIMUM	4.20		4.27		4.32		6.51		5.26		4.49		MAXIMUM
MINIMUM	-0.98		-0.69		-0.72		-0.50		0.15		-0.88		MINIMUM

LOCATION: LAT. 38 06 53, LONG. 121 29 47, NE SEC 14, T3N, R4E,
AT STATE HIGHWAY 12 AT TERMINOUS. STATION DISCONTINUED
AUGUST 4, 1969, AND REACTIVATED MARCH 1, 1972.PERIOD OF RECORD: FEB 1968 TO AUG 1969
MAR 1972 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

R94120 LITTLE POTATO SLOUGH AT TERMINOUS
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.62	-0.21	3.42	-0.51	4.84	-0.02	4.04	-0.61	0.44	3.41	0.05	2.49	1
	2.27	-0.61	2.40	0.29	3.01	1.41	2.47		-0.15	3.09	0.04	3.34	
2	2.34	-0.76	3.57	-0.59	4.62	-0.22	0.68	3.81	0.45	3.08	-0.02	2.27	2
	1.92	-0.66	2.31	0.37	2.92		-0.54	2.50	-0.21	3.18	0.31	3.33	
3	2.52	-0.95	3.62	-0.68	1.18	4.36	0.48	3.32	0.30	2.75	-0.25	2.06	3
	1.82	-0.53	2.49	0.72	-0.29	2.93	-0.75	2.48	-0.06	3.26	0.59	3.32	
4	2.79	-0.87	4.08	-0.31	1.08	4.06	0.26	2.88	0.15	2.39	-0.12	2.45	4
	2.13		2.73		-0.40	2.92	-0.92	2.52	0.09	3.50	1.70	4.03	
5	-0.02	3.30	1.00	4.05	1.01	3.69	0.12	2.55	0.21	2.34	0.16	2.47	5
	-0.66	2.36	-0.63	2.56	-0.59	2.81	-0.58	2.86	0.63	3.76	1.42	3.37	
6	0.58	3.83	0.84	3.78	0.57	2.92	0.08	2.21	0.08	2.35	-0.51	2.07	6
	-0.37	2.43	-0.86	2.30	-0.87	2.78	-0.37	3.00	1.26	3.97	0.95		
7	0.78	3.73	0.81	3.54	0.25	2.38	-0.21	1.71	0.02	2.34	3.13	-0.66	7
	-0.63	2.17	-0.67	2.53	-0.90	2.89	-0.33	3.06	1.41		2.08	0.70	
8	0.71	3.38	0.68	3.05	-0.03	2.00	-0.44	1.56	3.92	-0.05	2.97	-0.76	8
	-0.91	2.14	-1.02	2.42	-0.62		0.06		2.52	1.51	2.15	0.47	
9	0.93	3.24	0.40	2.53	3.19	-0.15	3.24	-0.61	3.87	-0.22	2.98	-0.68	9
	-0.90		-1.03		2.04	0.09	1.62	0.56	2.41	1.30	2.45	0.76	
10	2.27	0.86	2.45	-0.09	3.51	-0.14	3.48	-0.42	3.69	-0.46	3.55	0.10	10
	2.99	-0.78	2.06	-1.15	2.21	0.61	2.05	1.06	2.32	1.02	2.87	0.67	
11	2.50	0.69	2.60	-0.27	3.79	-0.22	3.69	-0.44	3.63	-0.44	3.26	-0.18	11
	2.90	-0.63	2.08	-0.66	2.41	1.01	2.28	1.36	2.51	1.06	2.66	0.27	
12	2.67	0.44	3.01	-0.16	3.83	-0.31	3.82	-0.39	3.73	-0.31	3.01	-0.20	12
	2.84	-0.38	2.31	-0.11	2.43	1.12	2.44	1.52	2.56	0.85	2.80	0.15	
13	2.88	0.19	3.31	-0.08	3.84	-0.44	4.03	0.03	3.53	-0.41	2.91	0.02	13
	2.77	-0.31	2.54	0.20	2.45	1.23	2.93	1.91	2.39	0.48	3.10		
14	2.82	-0.23	3.49	-0.19	3.92	-0.56	4.38	0.15	3.37	-0.41	0.07	2.67	14
	2.39	-0.33	2.64	0.50	2.24	0.97	3.07	1.77	2.52	0.43	0.00	3.09	
15	2.89	-0.38	3.54	-0.47	3.55	-0.89	4.21	-0.03	3.28	-0.25	-0.15	2.48	15
	2.46	-0.10	2.41	0.51	2.31	1.38	2.85	1.44	2.73		0.12	3.29	
16	3.03	-0.52	3.45	-0.69	3.75	-0.64	3.96	-0.13	0.32	3.03	-0.15	2.35	16
	2.36	0.07	2.27	0.60	2.45	1.27	2.81	1.22	-0.25	2.81	0.36	3.50	
17	3.17	-0.37	3.55	-0.69	3.72	-0.88	3.73	-0.18	0.14	2.74	-0.31	2.16	17
	2.75	0.61	2.30	0.83	2.21		2.83		-0.25	3.03	0.44	3.53	
18	3.16	-0.72	3.66	-0.58	0.87	3.15	1.05	3.48	0.11	2.55	-0.37	2.15	18
	2.34		2.68	1.47	-1.15	2.03	-0.17	2.86	-0.11	3.11	0.78	3.67	
19	0.76	3.29	3.98	-0.28	0.73	2.98	0.89	3.16	-0.06	2.21	-0.40	2.21	19
	-0.85	2.05	2.70		-1.11	2.19	-0.23	2.91	-0.01	3.25	1.10	3.60	
20	0.46	2.93	1.29	3.61	0.70	2.80	0.63	2.79	-0.38	1.87	-0.58	2.28	20
	-1.09	1.78	-0.71	2.44	-1.11	2.26	-0.32	2.99	0.24	3.45	0.90	3.44	
21	0.60	2.92	1.12	3.42	0.54	2.57	0.23	2.12	-0.39	1.87	-0.66	2.22	21
	-1.13	1.86	-0.66	2.62	-1.01	2.60	-0.51	3.00	0.77	3.60	0.57		
22	0.80	2.91	1.33	3.18	0.74	2.60	-0.03	1.82	-0.60	1.93	3.27	-0.53	22
	-1.09	2.08	-0.75	2.44	-0.54	2.80	-0.24	3.30	0.93	3.70	2.44	0.43	
23	1.24	3.00	1.08	2.69	0.20	1.85	-0.32	1.66	-0.47	2.25	3.21	-0.43	23
	-0.92	2.21	-0.70	2.67	-0.67	2.83	0.18	3.43	1.15		2.57	0.27	
24	1.42	2.71	0.86	2.25	-0.25	1.60	-0.62	1.53	3.79	-0.66	3.13	-0.30	24
	-0.98		-0.90		-0.30		0.39	3.55	2.18	0.79	2.93	0.20	
25	2.24	1.21	2.62	0.59	3.22	-0.45	-0.80	1.72	3.80	-0.55	2.94	-0.37	25
	2.41	-0.93	2.18	-0.47	1.52	-0.01	0.73		2.36	0.49	2.69	-0.28	
26	2.38	0.88	2.99	0.22	3.43	-0.69	3.87	-0.66	3.67	-0.39	2.61	-0.40	26
	2.24	-0.82	1.86	-0.45	1.71	0.46	2.12	1.29	2.77	0.64	2.68		
27	2.66	0.66	3.11	-0.25	3.75	-0.67	4.51	-0.07	3.72	-0.21	-0.49	2.44	27
	2.48	-0.42	1.71	-0.48	1.99	0.91	2.76	1.42	2.72	0.23	-0.26	2.89	
28	2.91	0.25	3.03	-0.73	4.16	-0.29	4.56	0.02	3.27	-0.47	-0.50	2.40	28
	2.48	-0.13	1.71	-0.17	2.56	1.35	2.86	1.10	2.72		-0.01	3.11	
29	3.09	-0.11	3.40	-0.65	4.40	-0.31	4.36	-0.11	0.02	3.08	-0.41	2.43	29
	2.36	-0.08	2.16	0.50	2.56	1.14	2.80	0.74	-0.35	3.05	0.28	3.28	
30	3.37	-0.22	4.04	-0.14	4.29	-0.44	4.04	-0.19	0.25	3.17	-0.26	2.56	30
	2.49	0.12	2.91	1.44	2.53	0.89	2.82	0.58	0.23	3.40	0.77	3.53	
31			4.73	0.07			3.74	-0.25	0.22	2.83			31
			3.05	1.66			2.92		0.24	3.39			
MAXIMUM	3.83		4.73		4.84		4.56		3.97		4.03		MAXIMUM
MINIMUM	-1.13		-1.15		-1.15		-0.92		-0.66		-0.76		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.04 - 2/15/69

ZERO OF GAGE: 1968 TO 1969 -0.11 USCGS
1972 TO DATE 0.00 USCGS

TABLE R-12 (CONTINUED)

DAILY TIDES

R94100 GEORGIANA SLOUGH AT MOKELUMNE RIVER
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	0.08 1.31	2.91	NR	NR	NR	NR	1.96 3.45	1.13 -0.38	2.65 3.79	1.60	3.25 4.05	2.13 0.95	1
2	3.60 2.81	0.06 0.96	NR	NR	2.32 3.69	1.00 0.06	2.22 3.76	1.39 0.07	0.29 1.47	2.71 3.85	3.18 3.86	1.67 0.80	2
3	3.47 3.03	0.20 1.01	NR	NR	2.47 3.84	1.21 0.33	2.64 3.82	1.52	0.43 1.59	2.99 4.11	3.16 4.02	1.49	3
4	3.45 3.13	0.41 0.70	NR	NR	2.95 4.21	1.67	-0.10 1.39	2.41 3.73	0.76 1.70	3.37 4.14	1.13 1.62	3.58 3.99	4
5	3.06 2.94	0.21 0.22	NR	NR	0.25 1.48	2.62 3.89	-0.20 1.19	2.35 3.52	0.86 1.37	3.34 3.56	1.23 1.46	3.68 3.75	5
6	2.78 3.06	0.27 0.17	NR	NR	0.07 1.81	2.99 4.06	-0.28 1.04	2.31 3.43	0.68 1.50	3.53 3.68	1.24 1.50	3.99 3.79	6
7	2.80 3.54	0.54	NR	NR	0.24 1.84	2.88 4.21	-0.21 0.98	2.48 3.18	1.30 1.51	4.02 3.23	1.45 1.27	4.07 3.40	7
8	0.50 0.84	2.90 3.50	NR	NR	0.28 1.65	2.80 3.73	-0.32 0.71	2.43 2.97	1.13 1.21	3.81 2.77	1.53 1.21	4.23 3.25	8
9	0.30 0.93	2.68 3.64	NR	NR	-0.19 1.32	2.43 3.25	0.04 1.61	3.30 3.36	1.26 1.11	3.96 2.83	1.76 1.07	4.35 2.87	9
10	0.23 1.09	2.62 3.63	NR	NR	-0.43 1.16	2.27 2.83	0.41 0.92	3.34 2.35	2.12 1.45	4.60	1.64 0.86	4.06 2.97	10
11	0.14 1.24	2.53 3.52	NR	NR	-0.47 1.13	2.57 2.73	0.15 0.82	3.42 2.19	3.01 5.07	2.68 1.95	2.07 0.67	4.20	11
12	0.02 1.48	2.38 3.44	NR	NR	-0.46 0.73	2.58 2.03	0.65 0.70	3.82 2.07	3.19 4.71	2.86 1.72	2.73 3.82	2.10 0.45	12
13	NR	NR	NR	NR	-0.62 0.39	2.66 1.75	1.12 0.84	4.13	3.53 4.71	2.96 1.60	2.88 3.68	2.11 0.19	13
14	NR	NR	NR	NR	-0.43 -0.40	2.61	2.35 4.28	1.66 0.68	3.65 5.10	2.55 1.57	2.45 3.23	1.23 -0.13	14
15	NR	NR	NR	NR	1.21 2.82	-0.38 -0.48	2.87 5.01	2.16 1.38	3.63 4.70	2.18 1.31	2.56 3.28	1.02 -0.02	15
16	NR	NR	NR	NR	1.42 3.23	0.11 -0.51	3.73 6.10	3.19 2.22	3.64 4.46	1.92	2.66 3.30	0.70 0.35	16
17	NR	NR	NR	NR	1.78 3.90	0.65 -0.17	4.17 5.68	3.00	1.19 1.67	3.62 4.16	3.02 3.34	0.82 0.47	17
18	NR	NR	NR	NR	2.16 4.00	0.95 -0.10	2.24 3.82	4.87 6.39	1.05 1.48	3.59 3.93	3.15 3.04	0.47 0.38	18
19	NR	NR	NR	NR	2.46 4.22	1.23	2.85 3.18	4.72 5.48	1.16 1.28	3.73 3.53	3.18 3.06	0.40	19
20	NR	NR	NR	NR	-0.01 1.19	2.46 4.17	2.18 2.60	4.15 4.79	1.01 1.20	3.74 3.27	0.85 0.80	3.75 3.18	20
21	NR	NR	NR	NR	-0.02 1.28	2.55 4.16	1.76 2.23	4.12 4.24	1.12 1.18	3.83 3.12	0.91 0.41	3.47 2.93	21
22	NR	NR	NR	NR	0.21 1.54	3.09 4.18	1.44 1.86	3.94 3.39	1.37 0.98	3.91 2.62	1.05 0.08	3.36 2.33	22
23	NR	NR	NR	NR	0.21 1.15	2.89 3.63	0.96 1.33	3.56 2.73	1.36 0.79	3.70 2.68	0.94 -0.01	3.19 2.16	23
24	NR	NR	NR	NR	0.06 0.80	2.89 2.89	0.81 1.23	3.62 2.40	2.16 1.32	4.37 2.64	1.21 -0.12	3.10 2.10	24
25	NR	NR	NR	NR	-0.30 0.48	2.65 2.36	0.99 1.15	3.75 1.97	1.99 0.56	3.72	1.52 0.00	3.11 2.24	25
26	NR	NR	NR	NR	-0.43 0.31	2.71 2.04	1.07 0.65	3.33	2.45 3.76	2.05 0.57	1.71 -0.11	2.98	26
27	NR	NR	NR	NR	-0.03 0.53	3.23 2.21	1.52 3.06	1.05 0.20	2.68 3.94	2.07 0.90	2.26 2.69	1.69 -0.21	27
28	NR	NR	NR	NR	0.62 0.16	3.35	1.54 3.18	1.31 0.23	3.19 4.14	2.39 0.89	2.24 2.21	1.27 -0.70	28
29	NR	NR	NR	NR	1.75 3.29	0.58 -0.18	2.47 4.24	2.16 0.67			1.79 2.04	0.53 -0.77	29
30	NR	NR	NR	NR	1.78 3.24	0.83 -0.41	2.94 4.11	2.28 0.53			1.89 2.25	0.36 -0.59	30
31	NR	NR			1.83 3.28	0.99 -0.50	2.93 3.95	2.03 0.32			2.17 2.42	0.17 -0.18	31
MAXIMUM	NR		NR		NR		6.39		5.10		4.35		MAXIMUM
MINIMUM	NR		NR		NR		-0.38		0.29		-0.77		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 07 48, LONG. 121 34 46, NW SEC. 7, T3N, R4E
ON ANDRUS ISLAND, 2.8 MILES SOUTHEAST OF ISLETON.
DISCONTINUED OCTOBER 1966 AND REACTIVATED JULY 1972.PERIOD OF RECORD: JUN 1929 TO OCT 1966
JUL 1972 TO DATE

TABLE A-12 (CONTINUED)

DAILY TIDES

R94100 GEORGIANA SLOUGH AT MOKELUMNE RIVER
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.47	-0.07	3.29	-0.39	4.71	0.06	3.91	-0.47	0.54	3.31	-0.40	1.69	1
	2.10	-0.48	2.22	0.38	2.87	1.50	2.34	0.80	-0.06	2.98	-0.42	2.39	
2	2.16	-0.65	3.44	-0.46	4.52	-0.09	3.71	-0.43	0.54	2.97	-0.53	1.35	2
	1.74	-0.52	2.17	0.47	2.80	1.30	2.32		-0.11	3.07	-0.24	2.25	
3	2.34	-0.81	3.51	-0.57	4.26	-0.19	0.59	3.13	0.39	2.64	-0.82	1.10	3
	1.65	-0.40	2.35	0.85	2.81		-0.62	2.33	0.02	3.15	-0.04	2.31	
4	2.63	-0.71	3.91	-0.26	1.17	3.95	0.36	2.68	0.25	2.30	-0.80	1.40	4
	1.98		2.59		-0.27	2.81	-0.81	2.37	0.16	3.39	0.88	2.87	
5	0.12	3.19	1.10	3.90	1.11	3.59	0.20	2.36	0.29	2.22	-0.62	2.23	5
	-0.51	2.21	-0.48	2.41	-0.47	2.68	-0.51	2.76	0.67	3.59	1.47	3.12	
6	0.69	3.68	0.98	3.65	0.67	2.82	0.18	2.07	0.17	2.23	-0.39	1.78	6
	-0.25	2.29	-0.74	2.15	-0.76	2.66	-0.32	2.88	1.25	3.80	0.98		
7	0.91	3.57	0.92	3.34	0.34	2.26	-0.10	1.60	0.09	2.16	2.78	-0.59	7
	-0.51	2.01	-0.58	2.39	-0.79	2.78	-0.28	2.95	1.44	3.80	1.70	0.71	
8	0.82	3.26	0.82	2.84	0.06	1.89	-0.35	1.45	-0.01	2.40	2.52	-0.75	8
	-0.73	1.98	-0.90		-0.51		0.13		1.55		1.71	0.41	
9	1.04	3.09	2.26	0.50	3.06	-0.06	3.13	-0.52	3.78	-0.15	2.53	-0.74	9
	-0.77		2.39	-0.91	1.92	0.14	1.47	0.62	2.30	1.36	2.03	0.66	
10	2.14	0.93	2.31	0.04	3.41	-0.09	3.36	-0.33	3.58	-0.33	3.12	-0.02	10
	2.89	-0.69	1.93	-0.99	2.08	0.66	1.97	1.15	2.18	1.10	2.39	0.56	
11	2.38	0.79	2.37	-0.05	3.70	-0.11	3.55	-0.33	3.51	-0.32	2.78	-0.23	11
	2.78	-0.54	1.90	-0.54	2.28	1.07	2.13	1.45	2.35	1.15	2.20	0.21	
12	2.53	0.52	2.89	-0.06	3.74	-0.22	3.65	-0.25	3.58	-0.23	2.63	-0.29	12
	2.70	-0.29	2.17	-0.03	2.29	1.18	2.29	1.62	2.44	0.94	2.31	0.00	
13	2.76	0.30	3.20	0.01	3.75	-0.34	3.77	0.14	3.38	-0.27	2.39	-0.15	13
	2.61	-0.18	2.42	0.31	2.35	1.33	2.74	1.97	2.26	0.59	2.51		
14	2.69	-0.11	3.36	-0.05	3.82	-0.45	4.20	0.26	3.25	-0.30	-0.11	2.10	14
	2.27	-0.20	2.45	0.61	2.13	1.05	2.76	1.86	2.41	0.55	-0.27	2.48	
15	2.77	-0.24	3.40	-0.34	3.47	-0.78	3.82	0.10	3.18	-0.14	-0.41	1.94	15
	2.31	0.00	2.29	0.62	2.18	1.44	2.71	1.49	2.62		-0.18	2.69	
16	2.90	-0.38	3.32	-0.51	3.66	-0.56	3.73	-0.05	0.46	2.93	-0.42	1.81	16
	2.19	0.17	2.16	0.71	2.28	1.38	2.41	1.26	-0.14	2.69	0.05	2.88	
17	3.02	-0.28	3.46	-0.57	3.59	-0.75	3.61	-0.11	0.26	2.62	-0.57	1.67	17
	2.56	0.71	2.20	0.92	2.07		2.55		-0.12	2.79	0.15	2.94	
18	3.02	-0.62	3.58	-0.48	0.96	3.01	1.13	3.21	0.16	2.25	-0.64	1.65	18
	2.12		2.58	1.53	-1.03	1.90	-0.11	2.58	-0.08	2.67	0.45	3.16	
19	0.80	3.15	3.91	-0.23	0.82	2.88	0.95	3.00	-0.08	1.79	-0.69	1.68	19
	-0.77	1.85	2.60		-0.98	2.07	-0.19	2.70	-0.06	2.79	0.76	3.09	
20	0.55	2.76	1.39	3.52	0.80	2.66	0.69	2.67	-0.44	1.49	-0.85	1.68	20
	-0.96	1.59	-0.61	2.33	-0.99	2.13	-0.22	2.88	0.14	2.97	0.59	2.86	
21	0.70	2.73	1.22	3.32	0.64	2.44	0.33	2.01	-0.47	1.47	-0.92	1.67	21
	-0.99	1.44	-0.59	2.52	-0.89	2.47	-0.39	2.79	0.65	3.14	0.29		
22	1.23	2.52	1.40	3.11	0.81	2.44	0.09	1.50	-0.67	1.61	2.74	-0.81	22
	-0.93	1.93	-0.69	2.35	-0.47	2.53	-0.15	3.01	0.79	3.32	1.85	0.15	
23	1.33	2.86	1.14	2.60	0.29	1.72	-0.20	1.55	-0.60	1.88	2.61	-0.70	23
	-0.82	2.09	-0.66	2.55	-0.59	2.67	0.24	3.29	1.01		1.98	0.01	
24	1.47	2.61	0.92	2.15	-0.15	1.49	-0.53	1.44	3.40	-0.75	2.49	-0.58	24
	-0.88		-0.81	2.52	-0.25		0.45	3.45	1.82	0.67	2.21	-0.11	
25	2.12	1.26	0.64	2.06	3.03	-0.35	-0.69	1.63	3.40	-0.62	2.18	-0.69	25
	2.32	-0.85	-0.43		1.41	0.06	0.82		1.98	0.39	1.88	-0.63	
26	2.29	0.94	2.89	0.28	3.27	-0.57	3.77	-0.54	3.24	-0.48	1.79	-0.80	26
	2.15	-0.74	1.75	-0.40	1.58	0.54	2.01	1.34	2.28	0.58	1.88		
27	2.55	0.73	2.99	-0.16	3.55	-0.55	4.40	0.03	3.22	-0.29	-0.87	1.60	27
	2.36	-0.36	1.61	-0.39	1.83	1.01	2.64	1.47	2.17	0.08	-0.72	2.01	
28	2.78	0.35	2.92	-0.61	3.95	-0.18	4.46	0.13	2.60	-0.60	-0.95	1.48	28
	2.38	-0.02	1.61	-0.08	2.35	1.44	2.74	1.20	2.07		-0.60	2.10	
29	2.98	0.00	3.31	-0.52	4.31	-0.22	4.26	0.00	-0.16	2.38	-1.01	1.43	29
	2.24	0.04	2.05	0.61	2.44	1.24	2.68	0.83	-0.58	2.24	-0.39	2.21	
30	3.22	-0.12	3.94	-0.04	4.18	-0.31	3.93	-0.09	-0.06	2.41	-0.95	1.40	30
	2.33	0.24	2.78	1.50	2.38	1.02	2.68	0.69	-0.16	2.56	0.01	2.34	
31			4.62	0.16			3.57	-0.15	-0.20	1.97			31
			2.92	1.63			2.79		-0.25	2.54			
MAXIMUM	3.68		4.62		4.71		4.46		3.80		3.16		MAXIMUM
MINIMUM	-0.99		-0.99		-1.03		-0.81		-0.75		-1.01		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 12/16/55

ZERO OF GAGE: 1929 TO 1940 0.00 USED
1940 0.00 USCGS
1964 -0.71 USCGS
1964 TO 1966 0.00 USCGS
1972 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

895100 SAN JOAQUIN RIVER AT SAN ANDREAS LANDING
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	0.28 1.57	3.06	2.31 2.79	-0.07 0.06	2.09 3.46	0.68 0.10	2.12 3.61	1.41 -0.20	2.79 3.93	1.73 0.27	3.34 4.15	2.15 0.84	1
2	3.73 2.97	0.26 1.23	2.18 2.86	0.03 0.00	2.46 3.82	1.22 0.21	2.37 3.93	1.66 0.25	2.85 3.99	1.59 0.41	3.28 4.00	1.72 0.74	2
3	3.62 3.19	0.40 1.22	2.37 3.26	0.45 0.17	2.61 3.95	1.43 0.48	2.80 3.98	1.77 0.07	3.12 4.25	1.72	3.32 4.17	1.54 1.10	3
4	3.59 3.28	0.63 0.94	2.65 3.48	0.88 0.19	3.09 4.35	1.92 0.40	2.57 3.89	1.65	0.76 1.77	3.51 4.29	3.73 4.15	1.60 1.15	4
5	3.21 3.08	0.42 0.43	2.49 3.30	0.87 -0.17	2.77 4.02	1.72	-0.03 1.44	2.51 3.68	0.85 1.44	3.48 3.71	3.84 3.92	1.44 1.21	5
6	2.93 3.20	0.49 0.37	2.30 3.46	0.98	0.16 2.06	3.19 4.20	-0.11 1.28	2.46 3.59	0.66 1.56	3.68 3.83	4.12 3.93	1.47	6
7	2.96 3.68	0.79 0.68	-0.09 1.46	2.47 3.92	0.38 2.10	3.03 4.35	-0.04 1.22	2.63 3.33	1.34 1.54	4.19 3.40	1.44 1.24	4.20 3.55	7
8	3.06 3.66	1.10	0.06 1.29	2.39 3.36	0.43 1.91	2.96 3.87	-0.15 0.94	2.58 3.20	1.14 1.16	3.98 2.96	1.51 1.16	4.37 3.41	8
9	0.50 1.19	2.84 3.80	-0.35 1.36	2.20 3.34	-0.04 1.58	2.57 3.40	0.17 1.82	3.40 3.50	1.27 1.06	4.13 3.02	1.81 1.03	4.49 2.98	9
10	0.44 1.36	2.78 3.82	-0.28 1.76	2.55 3.47	-0.29 1.42	2.45 3.05	0.57 1.12	3.47 2.48	2.18 1.41	4.80 3.23	1.70 0.84	4.19 3.13	10
11	0.34 1.52	2.69 3.67	0.09 2.12	3.08 3.47	-0.32 1.38	2.70 2.87	0.29 0.93	3.57 2.33	2.60 1.82	5.27	2.19 0.69	4.36 2.91	11
12	0.24 1.77	2.54 3.68	-0.17 1.53	2.52 2.77	-0.30 0.96	2.70 2.18	0.80 0.76	3.95 2.17	3.54 5.09	2.73 1.42	2.25 0.47	4.04	12
13	0.08 1.92	2.46 3.71	-0.42 1.71	2.74 3.09	-0.45 0.60	2.79 1.90	1.15 0.67	4.22	3.80 5.03	2.86 1.34	3.02 3.87	2.26 0.19	13
14	0.13 1.99	2.61 3.46	0.12 1.55	3.32 2.85	-0.25 -0.21	2.73 1.35	2.36 4.38	1.63 0.57	3.70 5.22	2.57 1.49	2.64 3.40	0.99 -0.12	14
15	0.26 2.03	2.94 3.40	0.17 1.14	3.30 3.03	-0.17 -0.30	2.95	2.97 5.13	2.29 1.32	3.71 4.83	2.22 1.20	2.70 3.42	1.10 -0.01	15
16	0.02 1.51	2.76 2.96	0.67 0.79	3.63	1.57 3.35	0.33 -0.36	3.82 6.20	3.22 2.13	3.74 4.57	1.93 1.11	2.82 3.46	0.84 0.30	16
17	-0.10 1.08	2.77	2.84 3.97	0.89 0.86	1.93 4.02	0.88 -0.03	4.27 5.75	2.98 1.92	3.75 4.30	1.69	3.20 3.50	0.91 0.55	17
18	2.99 2.99	0.14 0.85	2.95 4.13	1.08 0.65	2.30 4.16	1.19 0.04	4.78 6.45	3.74	1.02 1.50	3.72 4.06	3.32 3.20	0.59 0.49	18
19	3.16 3.33	0.52 0.82	2.84 4.26	1.24 0.37	2.60 4.38	1.47 0.11	2.68 3.08	4.73 5.52	1.06 1.32	3.83 3.62	3.33 3.26	0.46 0.97	19
20	3.20 3.51	0.67 0.60	2.76 4.23	1.23 0.16	2.61 4.32	1.41	1.95 2.48	4.14 4.85	1.04 1.27	3.86 3.38	3.90 3.33	0.90 1.03	20
21	2.95 3.47	0.63 0.15	2.71 4.26	1.41	0.08 1.47	2.69 4.31	1.62 2.25	4.20 4.33	1.20 1.26	3.96 3.24	3.63 3.10	0.40	21
22	2.67 3.62	0.65 0.00	0.08 1.54	2.75 4.35	0.30 1.75	3.23 4.33	1.39 1.90	4.06 3.49	1.49 1.08	4.02 2.75	1.17 0.14	3.53 2.49	22
23	2.59 3.81	0.80	0.14 1.56	2.84 4.21	0.33 1.36	3.03 3.78	0.96 1.40	3.68 2.83	1.53 0.90	3.84 2.82	1.08 0.03	3.36 2.33	23
24	-0.02 1.09	2.62 4.07	0.11 1.46	2.84 3.78	0.21 1.02	3.03 3.07	0.88 1.33	3.74 2.50	2.32 1.47	4.52 2.80	1.38 -0.04	3.26 2.26	24
25	0.08 1.32	2.66 4.08	-0.13 1.10	2.65 3.12	-0.15 0.69	2.78 2.51	1.10 1.25	3.87 2.21	2.21 0.71	3.87	1.74 0.12	3.28 2.38	25
26	0.13 1.69	2.83 4.25	-0.40 0.97	2.61 2.84	-0.26 0.52	2.84 2.19	1.21 0.72	3.63 1.76	2.61 3.86	2.28 0.71	1.94 0.03	3.18	26
27	0.27 1.72	2.91 3.88	-0.27 0.84	2.91 2.62	0.17 0.76	3.37 2.36	1.18 0.25	3.35	2.83 4.08	2.29 1.01	2.45 2.88	1.93 -0.06	27
28	0.05 1.60	2.85 3.54	-0.01 0.63	3.13 2.27	0.87 0.37	3.57	1.79 3.49	1.46 0.29	3.32 4.27	2.56 0.86	2.43 2.44	1.48 -0.58	28
29	-0.12 0.92	2.59 2.57	0.11 0.14	3.00	1.90 3.48	0.83 0.03	2.62 4.38	2.33 0.73			1.96 2.20	0.74 -0.63	29
30	-0.71 0.30	2.14	2.02 3.21	0.37 0.05	1.92 3.40	1.09 -0.23	3.09 4.28	2.47 0.56			2.06 2.40	0.54 -0.49	30
31	2.34 2.62	-0.33 0.26			1.99 3.48	1.27 -0.32	3.07 4.09	2.20 0.30			2.32 2.57	0.31 -0.07	31
MAXIMUM	4.25		4.35		4.38		6.45		5.27		4.49		MAXIMUM
MINIMUM	-0.71		-0.42		-0.45		-0.20		0.27		-0.63		MINIMUM

LOCATION: LAT. 38 06 12, LONG. 121 35 26, SE-SEC. 13, T3N, R3E
APPROXIMATELY 1.2 MILES BELOW MOKELUMNE RIVER.

PERIOD OF RECORD: MAY 1952 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

B95100 SAN JOAQUIN RIVER AT SAN ANDREAS LANDING
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.64	0.05	3.47	-0.22	4.86	0.18	4.12	-0.30	0.77	3.46	0.34	2.53	1
	2.27	-0.38	2.38	0.57	3.02	1.75	2.51	1.07	0.14	3.16	0.36	3.34	
2	2.33	-0.52	3.60	-0.34	4.66	0.04	3.90	-0.22	0.78	3.15	0.26	2.34	2
	1.93	-0.42	2.33	0.68	2.93	1.55	2.56		0.09	3.21	0.62	3.35	
3	2.52	-0.69	3.67	-0.46	4.40	-0.05	0.87	3.41	0.60	2.79	0.05	2.12	3
	1.84	-0.29	2.48	1.07	2.96		-0.43	2.54	0.23	3.29	0.93	3.37	
4	2.84	-0.63	4.05	-0.16	1.42	4.09	0.64	2.95	0.42	2.45	0.16	2.51	4
	2.13	0.22	2.76	1.33	-0.11	2.97	-0.61	2.56	0.39	3.54	1.95	4.05	
5	3.33	-0.47	4.07	-0.36	1.37	3.74	0.45	2.60	0.50	2.39	0.42	2.52	5
	2.38	0.83	2.58		-0.31	2.81	-0.28	2.95	0.93	3.77	1.70	3.45	
6	3.82	-0.20	1.22	3.82	0.91	2.98	0.44	2.26	0.38	2.40	-0.22	2.14	6
	2.46		-0.64	2.34	-0.58	2.80	-0.09	3.09	1.52	3.98	1.28	3.21	
7	1.08	3.74	1.13	3.54	0.56	2.42	0.15	1.78	0.30	2.41	-0.38	2.14	7
	-0.44	2.19	-0.50	2.58	-0.59	2.91	-0.02	3.15	1.73	3.95	1.05		
8	1.01	3.41	1.02	3.09	0.30	2.06	-0.10	1.63	0.19	2.55	3.01	-0.47	8
	-0.69	2.16	-0.79	2.44	-0.29		0.40	3.33	1.84		2.19	0.80	
9	1.22	3.28	0.72	2.57	3.22	0.17	-0.28	1.72	3.93	0.04	3.04	-0.40	9
	-0.68	2.31	-0.77		2.07	0.38	0.93		2.46	1.65	2.50	1.09	
10	1.16	3.05	2.47	0.24	3.56	0.15	3.58	-0.11	3.75	-0.18	3.54	0.31	10
	-0.59		2.12	-0.85	2.24	0.92	2.13	1.44	2.37	1.38	2.86	0.94	
11	2.53	1.00	2.63	0.05	3.85	0.10	3.80	-0.11	3.69	-0.17	3.27	0.10	11
	2.94	-0.43	2.13	-0.36	2.45	1.34	2.35	1.72	2.54	1.41	2.67	0.56	
12	2.68	0.71	3.03	0.16	3.89	-0.04	3.91	-0.05	3.78	-0.04	3.04	0.09	12
	2.85	-0.18	2.35	0.18	2.43	1.45	2.52	1.87	2.60	1.18	2.80	0.44	
13	2.89	0.46	3.36	0.21	3.90	-0.16	4.13	0.30	3.57	-0.11	2.92	0.27	13
	2.75	-0.05	2.56	0.53	2.50	1.60	3.02	2.21	2.43	0.81	3.10	0.36	
14	2.83	0.02	3.54	0.08	3.97	-0.27	4.41	0.41	3.41	-0.11	2.71	0.27	14
	2.42	-0.08	2.66	0.84	2.29	1.35	3.11	2.09	2.56	0.76	3.12		
15	2.91	-0.12	3.57	-0.17	3.60	-0.61	4.23	0.19	3.32	0.05	0.14	2.51	15
	2.45	0.14	2.42	0.86	2.32	1.72	2.88	1.76	2.76	0.65	0.40	3.31	
16	3.04	-0.29	3.50	-0.40	3.83	-0.39	3.99	0.12	3.11	0.03	0.13	2.41	16
	2.36	0.33	2.31	0.97	2.46	1.68	2.81	1.53	2.85		0.61	3.50	
17	3.17	-0.19	3.60	-0.40	3.76	-0.56	3.78	0.07	0.45	2.78	-0.02	2.22	17
	2.65	0.88	2.35	1.21	2.24	1.22	2.88	1.38	0.06	3.06	0.75	3.56	
18	3.20	-0.52	3.72	-0.30	3.20	-0.85	3.53	0.07	0.42	2.59	-0.08	2.20	18
	2.29	0.98	2.72	1.82	2.07		2.89		0.20	3.17	1.09	3.67	
19	3.32	-0.67	4.04	-0.06	1.09	3.05	1.19	3.22	0.25	2.26	-0.14	2.26	19
	2.06	0.75	2.75		-0.79	2.24	-0.02	2.96	0.30	3.29	1.40	3.65	
20	2.96	-0.88	1.66	3.67	1.11	2.86	0.94	2.81	-0.05	1.93	-0.31	2.30	20
	1.80		-0.46	2.47	-0.80	2.31	-0.06	3.03	0.57	3.48	1.21	3.48	
21	0.92	2.97	1.50	3.47	0.93	2.64	0.55	2.17	-0.08	1.93	-0.41	2.26	21
	-0.89	1.88	-0.41	2.66	-0.69	2.63	-0.21	3.06	1.09	3.67	0.80		
22	1.15	2.98	1.69	3.26	1.07	2.62	0.28	1.87	-0.30	1.96	3.32	-0.29	22
	-0.86	2.14	-0.50	2.51	-0.27	2.84	0.05	3.35	1.25	3.77	2.47	0.75	
23	1.57	3.07	1.44	2.77	0.54	1.89	0.01	1.72	-0.24	2.26	3.24	-0.20	23
	-0.68	2.28	-0.48	2.72	-0.35	2.87	0.50	3.48	1.49		2.57	0.54	
24	1.73	2.80	1.18	2.31	0.09	1.68	-0.32	1.60	3.86	-0.39	3.18	-0.04	24
	-0.73	2.31	-0.66	2.66	0.01	3.27	0.73	3.60	2.19	1.13	2.90	0.47	
25	1.53	2.51	0.87	2.20	-0.14	1.63	-0.50	1.79	3.84	-0.29	2.95	-0.11	25
	-0.67		-0.26		0.35		1.10		2.38	0.83	2.70	-0.01	
26	2.46	1.20	3.03	0.50	3.49	-0.34	3.92	-0.37	3.70	-0.15	2.63	-0.12	26
	2.32	-0.55	1.91	-0.21	1.79	0.84	2.18	1.62	2.76	0.95	2.69	-0.23	
27	2.72	0.97	3.14	0.02	3.85	-0.33	4.55	0.21	3.74	0.05	2.45	0.03	27
	2.53	-0.16	1.76	-0.19	2.06	1.30	2.79	1.74	2.73	0.52	2.90		
28	2.93	0.57	3.06	-0.45	4.25	0.03	4.59	0.31	3.30	-0.19	-0.23	2.42	28
	2.55	0.15	1.77	0.14	2.63	1.73	2.89	1.44	2.73	0.32	0.28	3.13	
29	3.14	0.19	3.44	-0.36	4.51	-0.01	4.41	0.18	3.09	-0.07	-0.13	2.46	29
	2.40	0.22	2.19	0.84	2.61	1.52	2.82	1.08	3.06		0.59	3.30	
30	3.38	0.04	4.08	0.13	4.38	-0.13	4.07	0.09	0.53	3.21	0.02	2.58	30
	2.52	0.42	2.92	1.78	2.58	1.29	2.84	0.90	0.51	3.42	1.10	3.56	
31			4.78	0.30			3.80	0.04	0.51	2.88			31
			3.07	1.88			2.94		0.49	3.42			
MAXIMUM	3.82		4.78		4.86		4.59		3.98		4.05		MAXIMUM
MINIMUM	-0.89		-0.85		-0.85		-0.61		-0.39		-0.47		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 9.7 - 12/26/55

ZERO OF GAGE: 1952 -2.84 USCGS
1964 -3.39 USCGS
1964 TO 1971 -3.00 USCGS
1971 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

895060 THREEMILE SLOUGH AT SAN JOAQUIN RIVER
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	0.01 1.30	2.51	1.91 2.43	-0.39 -0.28	1.66 3.05	0.43 -0.20	NR	NR	NR	NR	NR	NR	1
2	3.22 2.48	0.06 0.98	1.79 2.49	-0.28 -0.35	2.04 3.43	0.99 -0.10	NR	NR	2.44 3.62	1.30 0.05	NR	NR	2
3	3.13 2.66	0.19 1.00	1.98 2.89	0.17 -0.17	2.19 3.58	1.19 0.20	2.35 3.55	1.51 -0.20	2.74 3.90	1.44 0.40	2.90 3.81	1.22 0.74	3
4	3.10 2.78	0.39 0.69	2.25 3.12	0.60 -0.17	2.65 3.94	1.65 0.06	2.13 3.46	1.41	3.13 3.95	1.47	3.32 3.75	1.25 0.77	4
5	2.71 2.58	0.22 0.22	2.08 2.94	0.59 -0.51	2.33 3.62	1.47 -0.12	NR	NR	0.49 1.11	3.12 3.34	3.45 3.53	1.08 0.84	5
6	2.43 2.82	0.31 0.03	1.91 3.09	0.72 -0.44	2.75 3.82	1.82	NR	NR	0.31 1.24	3.31 3.47	3.73 3.53	1.13 1.06	6
7	2.57 3.28	0.49 0.31	2.08 3.54	1.16	0.07 1.84	2.61 3.94	NR	NR	NR	NR	3.83 3.13	0.88	7
8	2.68 3.28	0.81 0.15	-0.29 1.03	1.98 2.98	0.12 1.67	2.52 3.45	NR	NR	NR	NR	1.19 0.77	4.00 2.96	8
9	2.46 3.40	0.89	-0.68 1.10	1.80 2.95	-0.33 1.34	2.14 2.98	NR	NR	NR	NR	1.45 0.66	4.10 2.52	9
10	0.14 1.11	2.41 3.39	-0.61 1.49	2.16 3.08	-0.58 1.20	2.03 2.63	NR	NR	NR	NR	1.38 0.45	3.79 2.65	10
11	0.05 1.26	2.31 3.29	-0.23 1.88	2.65 3.05	-0.60 1.16	2.28 2.45	NR	NR	NR	NR	1.88 0.33	3.95 2.47	11
12	-0.09 1.52	2.15 3.30	-0.49 1.29	2.12 2.37	-0.58 0.72	2.29 1.75	NR	NR	NR	NR	1.93 0.10	3.63	12
13	-0.24 1.64	2.05 3.31	-0.72 1.59	2.38 2.67	-0.73 0.35	2.39 1.46	NR	NR	NR	NR	2.55 3.43	1.94 -0.19	13
14	-0.17 1.75	2.21 3.07	-0.15 1.31	2.93 2.45	-0.50 -0.48	2.33	NR	NR	NR	NR	2.20 2.97	1.08 -0.52	14
15	-0.05 1.97	2.56 3.02	-0.11 0.90	2.96 2.65	0.91 2.56	-0.41 -0.58	NR	NR	NR	NR	2.30 3.04	0.79 -0.39	15
16	-0.29 1.27	2.36 2.56	0.37 0.66	3.27	1.13 2.95	0.09 -0.65	NR	NR	NR	NR	2.41 3.07	0.51 -0.09	16
17	-0.41 0.79	2.39 2.59	2.45 3.62	0.59 0.53	1.49 3.64	0.64 -0.33	NR	NR	NR	NR	2.81 3.09	0.54 0.15	17
18	-0.19 0.51	2.60	2.56 3.80	0.79 0.32	1.86 3.81	0.94	NR	NR	NR	NR	2.94 2.81	0.23 0.13	18
19	2.74 2.96	0.18 0.45	2.45 3.93	0.96 0.02	NR	NR	NR	NR	NR	NR	2.97 2.91	0.12 0.62	19
20	2.80 3.12	0.34 0.25	2.38 3.88	0.98 -0.18	NR	NR	NR	NR	NR	NR	3.57 2.93	0.50 0.67	20
21	2.57 3.11	0.32 -0.21	2.32 3.92	1.14	NR	NR	NR	NR	NR	NR	3.29 2.69	0.17 0.83	21
22	2.29 3.28	0.36 -0.36	-0.28 1.28	2.37 4.00	NR	NR	NR	NR	NR	NR	3.15 2.08	-0.23	22
23	2.22 3.45	0.52	-0.21 1.31	2.46 3.87	NR	NR	NR	NR	NR	NR	0.79 -0.31	2.96 1.90	23
24	-0.37 0.82	2.22 3.70	-0.22 1.21	2.45 3.42	NR	NR	0.57 1.03	3.36 2.09	NR	NR	1.11 -0.38	2.86 1.83	24
25	-0.28 1.05	2.27 3.72	-0.46 0.85	2.27 2.75	NR	NR	0.81 0.94	3.49 1.81	NR	NR	1.42 -0.23	2.85 1.96	25
26	-0.22 1.40	2.44 3.87	-0.71 0.73	2.24 2.46	NR	NR	0.91 0.42	3.24 1.34	NR	NR	1.63 -0.29	2.76	26
27	-0.09 1.43	2.51 3.48	-0.57 0.64	2.55 2.21	NR	NR	0.91 -0.05	2.95	NR	NR	2.05 2.47	1.64 -0.43	27
28	-0.28 1.29	2.45 3.15	-0.30 0.34	2.74 1.84	NR	NR	1.36 3.09	1.16 -0.02	NR	NR	2.01 2.02	1.18 -0.92	28
29	-0.47 0.61	2.18 2.15	-0.17 -0.15	2.60	NR	NR	2.20 3.99	2.01 0.42			1.56 1.77	0.45 -0.96	29
30	-1.02 0.00	1.77 1.93	1.59 2.83	0.11 -0.25	NR	NR	2.68 3.86	2.18 0.22			1.68 2.03	0.23 -0.81	30
31	-0.66 -0.06	2.25			NR	NR	2.65 3.70	1.93 -0.07			1.94 2.13	-0.04 -0.45	31
MAXIMUM	3.87		4.00		NR		NR		NR		NR		MAXIMUM
MINIMUM	-1.02		-0.72		NR		NR		NR		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 05 15, LONG. 121 41 08, SE SEC. 19, T3N, R3E
ON SHERMAN ISLAND, 4.9 MILES SOUTH OF RIO VISTA.

PERIOD OF RECORD: JUNE 1929 TO DATE

TABLE B-12 (CONTINUED)

DAILY TIDES

895060 THREEMILE SLOUGH AT SAN JOAQUIN RIVER
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.23	-0.30	3.11	-0.58	4.39	-0.22	3.81	-0.68	3.07	-0.24	-0.01	2.14	1
	1.89	-0.76	1.95	0.22	2.57	1.41	2.14	0.75	2.72		0.07	2.96	
2	1.95	-0.87	3.22	-0.72	4.27	-0.34	3.59	-0.60	0.42	2.71	-0.08	1.94	2
	1.53	-0.76	1.92	0.37	2.48	1.23	2.16	0.55	-0.27	2.81	0.35	2.93	
3	2.17	-1.04	3.30	-0.86	4.03	-0.44	3.08	-0.80	0.29	2.38	-0.26	1.72	3
	1.45	-0.64	2.03	0.77	2.53	1.12	2.16		-0.11	2.92	0.65	2.97	
4	2.47	-1.02	3.67	-0.58	3.71	-0.50	0.37	2.61	0.13	2.05	-0.17	2.05	4
	1.72	-0.13	2.36	1.00	2.52		-0.97	2.21	0.08	3.14	1.57	3.63	
5	2.95	-0.84	3.67	-0.75	1.06	3.35	0.12	2.19	0.13	1.95	0.05	2.08	5
	1.95	0.49	2.15	0.96	-0.68	2.42	-0.67	2.61	0.61	3.35	1.38	3.06	
6	3.41	-0.59	3.45	-1.04	0.62	2.57	0.14	1.85	0.03	1.93	-0.55	1.73	6
	2.01		1.94		-0.94	2.41	-0.45	2.75	1.18	3.53	1.00	2.76	
7	0.74	3.35	0.78	3.12	0.28	1.99	-0.18	1.38	-0.05	1.97	-0.71	1.74	7
	-0.84	1.76	-0.90	2.19	-0.93	2.53	-0.36	2.80	1.37	3.53	0.76		
8	0.72	3.02	0.73	2.66	-0.02	1.63	-0.43	1.23	-0.17	2.10	2.62	-0.82	8
	-1.06	1.73	-1.17	2.01	-0.62	2.81	0.10	2.95	1.50	3.50	1.79	0.51	
9	0.92	2.89	0.39	2.16	-0.19	1.62	-0.58	1.32	-0.34	2.03	2.66	-0.74	9
	-1.05	1.89	-1.15	2.07	0.04		0.61		1.32		2.10	0.74	
10	0.86	2.63	-0.04	1.69	3.18	-0.21	3.21	-0.44	3.36	-0.52	3.15	-0.09	10
	-0.99		-1.19		1.80	0.59	1.73	1.10	1.95	1.08	2.41	0.55	
11	2.14	0.71	2.26	-0.26	3.46	-0.23	3.44	-0.45	3.32	-0.49	2.86	-0.26	11
	2.52	-0.81	1.71	-0.71	1.99	0.98	1.93	1.36	2.12	1.11	2.29	0.20	
12	2.27	0.36	2.66	-0.18	3.53	-0.43	3.56	-0.40	3.41	-0.40	2.66	-0.27	12
	2.42	-0.55	1.91	-0.16	1.97	1.12	2.13	1.48	2.18	0.86	2.42	0.06	
13	2.50	0.11	2.93	-0.17	3.50	-0.52	3.78	-0.10	3.23	-0.47	2.52	-0.10	13
	2.32	-0.43	2.11	0.22	2.06	1.26	2.47	1.81	2.05	0.50	2.65	0.01	
14	2.45	-0.33	3.15	-0.30	3.58	-0.62	4.00	0.00	3.06	-0.46	2.34	-0.08	14
	2.00	-0.42	2.23	0.56	1.86	1.03	2.55	1.72	2.16	0.42	2.70		
15	2.53	-0.49	3.20	-0.52	3.19	-0.96	3.84	-0.21	2.96	-0.30	-0.23	2.11	15
	2.04	-0.23	1.97	0.56	1.86	1.34	2.36	1.40	2.35	0.31	0.07	2.92	
16	2.65	-0.66	3.12	-0.74	3.44	-0.77	3.59	-0.28	2.69	-0.34	-0.24	2.01	16
	1.92	-0.04	1.87	0.68	2.02	1.32	2.37	1.19	2.46		0.31	3.10	
17	2.77	-0.60	3.19	-0.74	3.36	-0.90	3.37	-0.31	0.14	2.39	-0.35	1.83	17
	2.16	0.54	1.91	0.92	1.81	0.91	2.41	1.03	-0.28	2.66	0.45	3.16	
18	2.77	-0.92	3.33	-0.67	2.81	-1.18	3.12	-0.33	0.09	2.20	-0.45	1.76	18
	1.79	0.60	2.27	1.50	1.68	0.78	2.42		-0.10	2.78	0.79	3.25	
19	2.91	-1.06	3.63	-0.49	2.66	-1.12	0.81	2.77	-0.06	1.86	-0.50	1.84	19
	1.62	0.47	2.32	1.37	1.84		-0.43	2.44	0.02	2.93	1.09	3.27	
20	2.53	-1.29	3.25	-0.81	0.81	2.48	0.58	2.37	-0.34	1.53	-0.65	1.87	20
	1.37	0.62	2.04	1.21	-1.13	1.92	-0.42	2.62	0.29	3.08	0.89	3.05	
21	2.57	-1.23	3.04	-0.76	0.68	2.23	0.25	1.76	-0.40	1.52	-0.77	1.86	21
	1.47	0.84	2.22		-1.01	2.22	-0.53	2.66	0.76	3.31	0.57	2.93	
22	2.58	-1.20	1.41	2.82	0.77	2.22	-0.06	1.43	-0.62	1.53	-0.66	2.08	22
	1.72		-0.86	2.12	-0.64	2.45	-0.26	2.96	0.92	3.42	0.47		
23	1.28	2.66	1.18	2.37	0.21	1.47	-0.29	1.27	-0.65	1.82	2.88	-0.57	23
	-1.03	1.85	-0.88	2.30	-0.69	2.49	0.20	3.11	1.15	3.49	2.18	0.19	
24	1.42	2.41	0.91	1.89	-0.23	1.24	-0.64	1.19	-0.76	1.78	2.77	-0.38	24
	-1.07	1.89	1.00	2.24	-0.30	2.88	0.42	3.22	0.80		2.50	0.10	
25	1.26	2.10	0.55	1.73	-0.46	1.22	-0.84	1.39	3.46	-0.64	2.58	-0.49	25
	1.00	2.05	-0.63	2.64	0.04	3.13	0.77	3.57	1.99	0.52	2.32	-0.36	
26	0.93	1.91	0.18	1.45	-0.68	1.39	-0.71	1.78	3.35	-0.54	2.26	-0.46	26
	-0.88		-0.58	2.67	0.53		1.23		2.33	0.59	2.33	-0.57	
27	2.29	0.69	-0.33	1.32	3.50	-0.67	4.19	-0.17	3.39	-0.34	2.09	-0.31	27
	2.09	-0.51	-0.51		1.68	0.95	2.35	1.37	2.34	0.17	2.53	-0.58	
28	2.55	0.27	2.67	-0.76	3.93	-0.33	4.21	-0.09	2.95	-0.54	2.05	-0.03	28
	2.11	-0.21	1.33	-0.16	2.20	1.38	2.44	1.09	2.36	-0.02	2.77		
29	2.77	-0.15	3.07	-0.70	4.16	-0.42	4.04	-0.20	2.74	-0.42	-0.48	2.07	29
	1.98	-0.12	1.77	0.53	2.20	1.19	2.41	0.77	2.67	0.18	0.31	2.93	
30	3.00	-0.32	3.72	-0.25	4.04	-0.52	3.73	-0.29	2.82	0.16	-0.34	2.18	30
	2.09	0.07	2.46	1.44	2.17	0.96	2.43	0.55	3.03		0.81	3.19	
31			4.37	-0.11			3.41	-0.34	0.16	2.48			31
			2.59	1.47			2.53	0.41	0.13	3.06			
MAXIMUM	3.41		4.37		4.39		4.21		3.53		3.63		MAXIMUM
MINIMUM	-1.29		-1.19		-1.18		-0.97		-0.76		-0.82		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 5.9 - 4/6/58
 MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --
 RECORD NOT COMPLETE IN DECEMBER 1955.

ZERO OF GAGE: 1929 TO 1940 0.00 USED
 1940 TO 1959 0.00 USCGS
 1959 -10.00 USCGS
 1964 -10.45 USCGS
 1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

DAILY TIDES

895020 SAN JOAQUIN RIVER AT ANTIOCH
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	-0.71 0.80	2.49 3.27	1.98 2.51	-0.64 -0.51	1.70 3.13	0.28 -0.53	1.62 3.24	0.80 -1.16	2.25 3.48	1.06 -0.77	-0.15 1.43	2.70 3.55	1
2	-0.63 0.40	2.50 3.21	1.83 2.60	-0.50 -0.61	2.06 3.50	0.82 -0.42	1.94 3.57	0.99 -0.79	2.35 3.55	0.93 -0.69	2.79 3.57	1.20 0.00	2
3	-0.50 0.29	2.74 3.21	1.93 2.92	-0.26 -0.73	2.21 3.64	1.01 -0.09	2.30 3.59	1.06 -0.94	2.65 3.84	0.99 -0.34	2.90 3.85	1.02 0.37	3
4	3.10 2.83	-0.27 0.05	2.20 3.11	0.19 -0.82	2.69 4.00	1.47 -0.28	2.12 3.53	0.99 -1.10	3.06 3.94	1.01 -0.24	3.34 3.80	0.99 0.41	4
5	2.80 2.72	-0.42 -0.43	1.96 2.93	0.15 -1.14	2.31 3.69	1.30 -0.57	2.08 3.33	0.78 -1.14	3.07 3.30	0.59 0.59	3.48 3.57	0.79 0.50	5
6	2.54 2.86	-0.26 -0.51	1.85 3.07	0.35 -1.05	2.73 3.79	1.44 -0.64	2.03 3.23	0.63 -1.02	-0.37 0.73	3.28 3.43	3.78 3.59	0.82 0.74	6
7	2.58 3.32	0.05 -0.25	1.99 3.46	0.77 -0.95	2.50 3.91	1.48 -0.57	2.24 2.97	0.56 -1.12	0.44 0.62	3.79 2.88	3.86 3.14	0.54 0.84	7
8	2.62 3.28	0.41 -0.42	1.87 2.92	0.68 -1.32	2.42 3.44	1.34 0.99	2.22 2.76	0.31 0.99	0.24 0.27	3.54 2.37	4.07 2.93	0.39 0.39	8
9	2.42 3.42	0.51 -0.42	1.69 2.85	0.79 0.79	-0.97 0.99	2.04 2.93	-0.67 1.24	3.07 3.11	0.52 0.12	3.68 2.36	1.21 0.30	4.12 2.48	9
10	2.35 3.34	0.78 0.78	-1.20 1.16	2.05 2.98	-1.23 0.90	2.00 2.56	-0.33 0.38	3.08 2.01	1.52 0.44	4.31 2.59	1.21 0.13	3.79 2.58	10
11	-0.51 1.00	2.21 3.24	-0.81 1.54	2.48 2.93	-1.24 0.84	2.25 2.37	-0.52 0.15	3.17 1.82	1.98 0.75	4.70 0.75	1.70 0.02	3.91 2.40	11
12	-0.63 1.26	2.03 3.23	-1.06 1.04	2.01 2.26	-1.16 0.39	2.29 1.71	0.13 -0.13	3.58 1.56	2.88 4.47	2.07 0.36	1.83 -0.26	3.70 3.70	12
13	-0.75 1.39	1.91 3.20	-1.25 1.42	2.24 2.57	-1.30 -0.06	2.41 1.40	0.49 -0.36	3.74 1.69	3.13 4.42	2.15 0.14	2.47 3.47	1.76 -0.58	13
14	-0.65 1.53	2.09 2.91	-0.61 0.96	2.87 2.36	-0.96 -0.98	2.37 0.87	0.96 -0.48	3.87 3.87	3.05 4.63	1.77 0.21	2.19 3.07	0.99 -0.90	14
15	-0.50 1.75	2.43 2.93	-0.63 0.47	2.87 2.58	-0.80 -1.15	2.63 1.06	2.35 4.73	1.64 0.26	3.11 4.32	1.34 -0.04	2.29 3.09	0.60 -0.79	15
16	-0.78 1.01	2.29 2.48	-0.13 0.17	3.32 2.41	-0.30 -1.31	3.02 3.02	3.33 5.78	2.60 1.00	3.14 4.09	1.02 1.02	2.45 3.14	0.26 -0.48	16
17	-0.92 0.43	2.34 2.53	0.11 -0.07	3.68 3.68	1.41 3.75	0.25 -1.02	3.71 5.23	2.21 0.74	-0.10 0.75	3.21 3.83	2.89 3.17	0.23 -0.22	17
18	-0.70 0.09	2.60 2.71	2.54 3.88	0.33 -0.34	1.82 3.89	0.50 -1.03	4.18 5.87	3.11 1.35	-0.17 0.53	3.21 3.61	3.00 2.89	-0.10 -0.20	18
19	-0.32 -0.06	2.95 2.95	2.43 4.00	0.50 -0.70	2.20 4.13	0.74 -1.01	4.14 5.06	2.18 0.75	-0.05 0.34	3.39 3.15	3.08 2.98	-0.21 0.34	19
20	2.77 3.14	-0.12 -0.30	2.36 3.98	0.54 -0.95	2.20 4.06	0.68 -1.09	3.67 4.46	1.61 0.56	0.03 0.31	3.39 2.86	3.64 2.97	0.15 0.37	20
21	2.59 3.16	-0.15 -0.79	2.32 4.01	0.69 -1.08	2.30 4.05	0.75 -0.81	3.81 3.96	1.41 3.96	0.31 0.30	3.49 2.67	3.32 2.66	-0.16 0.60	21
22	2.25 3.34	-0.09 -0.98	2.36 4.08	0.84 0.84	2.86 4.01	1.00 1.00	0.39 1.08	3.66 3.10	0.76 0.16	3.53 2.13	3.18 2.07	-0.59 0.64	22
23	2.17 3.52	0.12 -1.05	-0.64 -0.69	2.61 1.55	-0.79 0.64	2.65 3.46	0.05 0.56	3.28 2.38	0.88 0.05	3.30 3.30	2.96 1.86	-0.61 0.98	23
24	2.19 3.77	0.42 -0.95	-0.30 -0.84	2.85 1.61	-0.86 0.29	2.67 2.66	0.08 0.55	3.30 2.00	2.16 3.90	1.71 0.64	2.84 1.76	-0.64 -0.64	24
25	2.20 3.75	0.66 0.66	0.01 -0.82	3.08 3.08	-1.19 0.02	2.44 2.11	0.43 0.46	3.44 1.69	2.11 3.28	1.65 -0.06	1.28 -0.40	2.78 1.84	25
26	-0.88 1.01	2.36 3.82	1.97 3.44	0.60 -0.76	-1.12 -0.17	2.53 1.72	0.56 -0.05	3.16 1.19	1.94 3.29	1.69 -0.05	1.55 -0.50	2.69 1.98	26
27	-0.74 1.08	2.43 3.42	2.11 3.59	0.80 -0.41	-0.54 0.04	3.07 1.90	0.63 -0.55	2.80 1.12	2.20 3.52	1.70 0.14	1.57 -0.68	2.44 2.44	27
28	-0.89 0.88	2.37 3.06	2.57 3.92	1.23 -0.62	0.20 -0.48	3.23 1.39	0.85 -0.53	2.91 2.91	2.72 3.70	1.93 1.93	1.93 2.08	1.04 -1.21	28
29	-0.75 0.56	2.28 2.27	-0.40 -0.42	2.68 1.64	0.24 -0.85	3.09 3.09	1.99 3.84	1.69 -0.17			1.53 1.75	0.32 -1.24	29
30	-1.22 -0.19	1.99 1.98	-0.10 -0.57	2.90 2.90	1.40 3.03	0.54 -1.14	2.53 3.74	1.83 -0.45			1.69 2.02	0.08 -1.11	30
31	-0.92 -0.27	2.31 2.31			1.48 3.22	0.67 -1.28	2.51 3.62	1.58 -0.81			2.00 2.14	-0.29 -0.84	31
MAXIMUM	3.82		4.08		4.13		5.87		4.70		4.12		MAXIMUM
MINIMUM	1.05		-1.32		1.31		-1.16		-0.77		-1.24		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 01 04, LONG. 121 48 06, SW SEC. 18, T2N, R 2E
IN PUMP HOUSE ON WHARF AT CITY WATER WORKS IMMEDIATELY
NORTH OF ANTIOCH.

PERIOD OF RECORD: JUNE 1929 TO DATE

TABLE R-12 (CONTINUED)

DAILY TIDES

B95020 SAN JOAQUIN RIVER AT ANTIOCH
(APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	2.24 1.97	-0.64 -1.10	3.17 1.99	-0.98 -0.07	4.40 2.56	-0.62 1.19	3.83 2.10	-1.39 0.24	3.03 2.67	-0.84 -0.07	-0.28 3.02	2.16	1
2	2.07 1.68	-1.10 -1.09	3.26 1.96	-1.13 0.11	4.30 2.49	-0.70 1.01	3.62 2.13	-1.29 0.06	-0.08 -0.80	2.64 2.76	-0.36 0.21	1.93 2.98	2
3	2.32 1.58	-1.31 -0.91	3.39 2.04	-1.29 0.52	4.09 2.56	-0.80 0.92	3.09 2.16	-1.45 -0.10	NR NR	NR NR	-0.50 0.52	1.69 2.97	3
4	2.59 1.72	-1.40 -0.43	3.74 2.38	-1.01 0.77	3.77 2.56	-0.84	2.62 2.23	-1.58	NR NR	NR NR	-0.39 1.43	1.99 3.59	4
5	3.01 1.95	-1.29 0.22	3.75 2.17	-1.19 0.76	0.84 -1.01	3.38 2.46	-0.33 -1.17	2.18 2.62	NR NR	NR NR	-0.20 1.26	2.00 3.00	5
6	3.44 1.98	-1.04 0.52	3.50 1.95	-1.42	0.45 -1.28	2.60 2.47	-0.24 -0.95	1.83 2.73	NR NR	NR NR	-0.79 0.89	1.69 2.74	6
7	3.38 1.71	-1.24	0.58 -1.29	3.17 2.19	0.11 -1.22	2.01 2.60	-0.58 -0.72	1.33 2.79	NR NR	NR NR	-0.98 0.61	1.73	7
8	0.52 -1.47	3.02 1.69	0.55 -1.56	2.70 2.04	-0.22 -0.86	1.68 2.89	-0.86 -0.22	1.13 2.92	-0.71 1.16	1.88 3.27	2.68 1.81	-1.02 0.40	8
9	0.75 -1.42	2.86 1.85	0.19 -1.51	2.07 2.13	-0.41 -0.12	1.60 3.20	-1.06 0.29	1.19 3.15	-0.90 0.92	1.84 3.24	2.73 2.10	-1.02 0.59	9
10	0.72 -1.34	2.62	-0.42 -1.75	1.65	-0.47 0.46	1.77	-0.92 0.77	1.59 3.36	-1.09 0.70	1.82	3.17 2.39	-0.40 0.30	10
11	2.13 2.50	0.54 -1.19	2.25 1.66	-0.69 -1.22	3.50 1.97	-0.50 0.79	-0.97 1.02	1.82	3.23 1.99	-1.05 0.71	2.88 2.30	-0.58 -0.01	11
12	2.29 2.44	0.12 -0.98	2.66 1.84	-0.68 -0.66	-1.03 0.64	1.80	3.49 2.01	-0.95 1.12	3.32 2.06	-0.97 0.40	2.70 2.48	-0.54 -0.18	12
13	2.51 2.33	-0.19 -0.78	2.91 2.03	-0.73 -0.30	3.40 1.88	-1.35 0.86	3.65 2.28	-0.71 1.38	3.17 1.95	-1.05 0.03	2.58 2.70	-0.36 -0.29	13
14	2.50 2.05	-0.66 -0.74	3.11 2.09	-0.88 0.13	3.40 1.73	-1.25 0.65	3.84 2.31	-0.64 1.13	3.02 2.08	-1.01 -0.04	2.26 2.68	-0.59 -0.81	14
15	2.58 2.08	-0.84 -0.54	3.19 1.85	-1.16 0.15	3.08 1.70	-1.60 0.92	3.67 2.18	-0.86 0.95	2.87 2.27	-0.81 -0.13	2.03 2.88	-0.39	15
16	2.70 1.97	-1.01 -0.32	3.09 1.77	-1.39 0.26	3.31 1.81	-1.43 0.83	3.47 2.22	-0.92 0.72	2.63 2.39	-0.87 -0.31	-0.82 -0.11	1.91 3.04	16
17	2.82 2.08	-1.00 0.27	3.12 1.79	-1.39 0.55	3.23 1.66	-1.53 0.52	3.27 2.24	-0.91 0.56	2.45 2.70	-0.49	-0.93 0.06	1.70 3.08	17
18	2.81 1.77	-1.32 0.33	3.27 2.10	-1.30 1.13	2.74 1.57	-1.81 0.42	3.02 2.29	-0.93 0.31	-0.09 -0.28	2.22 2.84	-1.04 0.40	1.60 3.14	18
19	1.93 1.60	-1.36 0.29	3.52 2.14	-1.13 0.97	2.61 1.76	-1.74 0.44	2.64 2.29	-1.01	-0.29 -0.10	1.89 2.98	-1.13 0.76	1.65 3.14	19
20	2.68 1.36	-1.60 0.46	3.19 1.89	-1.41 0.89	2.40 1.87	-1.67 0.31	0.08 -0.95	2.25 2.48	-0.56 0.16	1.53 3.13	-1.24 0.49	1.69 2.93	20
21	2.60 1.42	-1.59 0.68	2.90 2.07	-1.37	2.16 2.20	-1.51	-0.14 -0.92	1.70 2.61	-0.62 0.69	1.50 3.37	-1.40 0.15	1.74 2.86	21
22	2.50 1.69	-1.54 1.16	1.05 -1.45	2.71 2.02	0.49 -1.15	2.03 2.38	-0.49 -0.62	1.32 2.91	-0.88 0.79	1.49 3.42	-1.30 0.04	1.98 2.83	22
23	2.59 1.79	-1.35	0.89 -1.46	2.27 2.13	-0.14 -1.10	1.39 2.46	-0.72 -0.16	1.13 3.04	-0.98 0.99	1.76 3.50	-1.22 -0.28	2.10	23
24	1.30 -1.36	2.33 1.82	0.57 -1.53	1.79 2.17	-0.64 -0.66	1.12 2.84	-1.11 0.11	1.03 3.15	-1.04 0.60	1.79	2.72 2.43	-1.01 -0.47	24
25	1.18 -1.29	2.04 2.02	0.23 -1.15	1.59 2.51	-0.95 -0.32	1.10 3.14	-1.40 0.45	1.23 3.51	3.51 2.00	-0.95 0.33	2.54 2.37	-1.08 -0.95	25
26	0.83 -1.14	1.88 2.20	-0.22 -1.03	1.32 2.55	-1.20 0.20	1.29 3.49	-1.30 0.92	1.66	3.41 2.35	-0.86 0.39	2.25 2.34	-1.02 -1.18	26
27	0.51 -0.80	2.09 2.59	-0.80 -0.92	1.19	-1.22 0.59	1.58 3.91	4.13 2.19	-0.84 0.92	3.49 2.38	-0.66 -0.08	2.07 2.55	-0.81 -1.18	27
28	0.05 -0.50	2.11	2.65 1.24	-1.30 -0.55	-0.96 0.96	2.10	4.12 2.30	-0.76 0.63	3.03 2.42	-0.86 -0.29	2.02 2.77	-0.47 -1.09	28
29	2.83 1.97	-0.44 -0.42	3.04 1.67	-1.28 0.08	4.17 2.10	-1.10 0.75	3.96 2.30	-0.86 0.29	2.83 2.72	-0.69 -0.06	2.02 2.90	-0.07	29
30	3.09 2.11	-0.68 -0.22	3.66 2.33	-0.88 0.98	4.03 2.11	-1.24 0.50	3.67 2.36	-0.94 0.04	2.89 3.09	-0.07	-0.93 0.40	2.05 3.09	30
31			4.28 2.42	-0.80 0.94			3.39 2.48	-0.97 -0.09	-0.09 -0.08	2.52 3.10			31
MAXIMUM	3.44		4.28		4.40		4.13		NR		3.59		MAXIMUM
MINIMUM	-1.60		-1.75		-1.81		-1.58		NR		-1.40		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 6.2 - 12/26/55

ZERO OF GAGE: 1929 TO 1940 0.00 USED
 1940 TO 1957 0.00 USCGS
 1957 TO 1957 -9.71 USCGS
 1957 -9.96 USCGS
 1964 -10.11 USCGS
 1964 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

DAILY TIDES

E03300 SUISIN BAY AT BENICIA
(OCTOBER 1, 1972, THROUGH MARCH 30, 1973)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	-1.84	2.58	-1.72	2.85	-0.23	3.42	1.76	0.55	2.33	0.52	0.77	3.54	1
	0.19	3.32	-1.63	1.99	-1.80	2.18	3.45	-2.40	3.64	-2.72	-2.11		
2	-1.64	2.73	-1.44	2.94	0.27	3.74	2.13	0.70	2.53	0.32	2.66	-0.01	2
	-0.15	3.38	-1.80	2.23	-1.83		3.77	-2.12	3.79	-2.59	3.51	-2.28	
3	-1.50	2.93	-0.82	3.35	2.34	0.47	2.41	0.67	2.87	0.33	2.84	-0.34	3
	-0.46	3.25	-1.67		3.91	-1.47	3.75	-2.25	4.08	-2.15	3.90	-1.93	
4	-1.32	3.17	2.46	-0.31	2.72	0.85	2.30	0.69	3.33	0.24	3.31	-0.71	4
	-0.83	3.05	3.45	-1.91	4.14	-1.86	3.76	-2.44	4.16	-1.97	3.80	-1.83	
5	-1.33	3.12	2.14	-0.36	2.37	0.76	2.33	0.44	3.31	-0.45	3.51	-1.06	5
	-1.31		3.27	-2.23	3.91	-2.05	3.61	-2.46	3.52	-1.93	3.60	-1.62	
6	2.87	-1.10	2.11	0.00	3.10	1.24	2.30	0.25	3.61	-0.29	3.91	-0.90	6
	3.32	-1.42	3.38	-2.15	4.09	-1.84	3.48	-2.32	3.68	-0.70	3.62	-1.20	
7	2.93	-0.58	2.24	0.48	2.71	1.17	2.52	0.14	4.04	-0.61	3.94	-1.60	7
	3.70	-1.18	3.65	-2.06	4.09	-1.83	3.20	-2.34	2.99	-0.83	3.10	-0.61	
8	2.85	-0.17	2.04	0.40	2.59	1.03	2.57	-0.06	3.72	-0.99	4.18	-1.79	8
	3.64	-1.43	3.12	-2.43	3.67	-2.27	3.16	-1.71	2.40	-0.29	2.78	-0.05	
9	2.70	0.13	1.91	0.52	2.26	0.74	3.42	0.87	3.74	-1.14	4.09	-1.92	9
	3.76	-1.34	3.06	-2.22	3.19	-2.36	3.31	-1.35	2.37	1.04	2.36	0.27	
10	2.63	0.44	2.36	0.91	2.31	0.71	3.31	-0.38	4.30	1.00	3.72	-1.94	10
	3.57	-1.44	3.19	-1.69	2.84	-2.27	2.12	-1.37	2.58		2.43	0.95	
11	2.47	0.72	2.50	1.08	2.54	0.54	3.40	-0.61	1.58	4.62	3.76	-1.95	11
	3.42	-1.52	2.84	-1.97	2.59	-2.06	1.90	-0.47	-1.05	2.79	2.15		
12	2.25	1.02	2.18	0.85	2.64	0.12	3.67	-1.26	1.49	4.44	1.09	3.47	12
	3.34	-1.59	2.44		1.95	-2.02	1.56		-1.62	3.09	-2.11	2.23	
13	2.04	1.18	-2.06	2.62	2.73	-0.47	-0.01	3.68	1.46	4.41	0.94	3.29	13
	3.32		1.43	3.06	1.63		-1.89	1.64	-2.33	2.96	-2.72	2.03	
14	-1.39	2.26	-1.03	3.12	-1.47	2.81	0.52	3.85	0.88	4.72	0.01	3.00	14
	1.34	3.08	0.62	2.57	-1.54	1.13	-2.30	2.27	-2.41		-3.12	2.36	
15	-1.10	2.55	-1.30	3.24	-1.10	3.07	1.15	4.68	3.03	0.14	-0.50	3.15	15
	1.52	3.08	0.01	2.69	-1.94	1.30	-1.77	3.39	4.35	-2.64	-2.96	2.60	
16	-1.39	2.48	-0.91	3.66	-0.57	3.52	2.24	5.81	3.15	-0.33	-1.10	3.24	16
	0.81	2.72	-0.67	2.52	-2.32	1.68	-1.31		4.22	-2.55	-2.55		
17	-1.64	2.65	-0.71	3.99	0.00	4.20	3.69	1.23	3.28	-0.74	3.12	-1.44	17
	0.07	2.63	-1.21	2.68	-2.27		5.34	-1.70	3.99	-2.46	3.25	-2.29	
18	-1.59	2.92	-0.51	4.25	2.11	0.18	4.28	2.19	3.37	-0.99	3.23	-1.84	18
	-0.50	2.85	-1.72		4.32	-2.45	5.89	-1.53	3.77	-2.03	3.13	-1.93	
19	-1.29	3.27	2.60	-0.24	2.45	0.33	3.83	0.45	3.57	-1.16	3.42	-1.89	19
	-0.88	2.99	4.37	-2.21	4.51	-2.70	4.97	-2.22	3.31	-1.53	3.34	-0.84	
20	-0.99	3.52	2.59	-0.10	2.42	0.21	3.42	-0.03	3.60	-1.11	3.86	-1.75	20
	-1.29		4.40	-2.60	4.43	-2.87	4.33	-2.12	2.98	-0.84	3.00	-1.12	
21	2.85	-0.99	2.57	0.20	2.50	0.23	3.80	-0.29	3.64	-0.98	3.61	-1.85	21
	3.63	-1.94	4.41	-2.78	4.39	-2.52	3.85	-1.92	2.74	-0.03	2.67	-0.70	
22	2.57	-0.83	2.60	0.38	3.09	0.35	3.58	-0.46	3.57	-1.06	3.28	-2.47	22
	3.88	-2.25	4.46	-2.62	4.31	-2.48	3.00	-1.71	2.14	0.35	2.02	-0.22	
23	2.52	-0.50	2.75	0.43	2.89	-0.10	3.28	-0.75	3.34	-0.93	2.99	-2.32	23
	4.06	-2.39	4.36	-2.48	3.72	-2.36	2.29	-1.10	2.17	1.46	1.80	0.35	
24	2.52	-0.10	2.78	0.40	2.92	-0.52	3.29	-0.53	4.02	-0.17	2.76	-2.10	24
	4.24	-2.30	3.76	-2.59	2.87	-2.54	1.95	-0.29	2.16		1.56	0.65	
25	2.53	0.26	2.59	0.01	2.78	-0.72	3.35	-0.65	1.37	3.28	2.63	-1.76	25
	4.13	-2.22	2.97	-2.65	2.30	-2.17	1.59		-0.79	1.88	1.57	1.00	
26	2.58	0.56	2.62	-0.05	2.88	-0.87	0.02	2.99	1.44	3.32	2.52	-1.59	26
	4.07	-1.96	2.69		1.89	-1.21	-1.09	1.16	-0.80	2.20	1.69		
27	2.63	0.68	-2.21	3.00	3.38	-0.64	0.31	2.77	1.41	3.55	1.09	2.32	27
	3.59		-0.28	2.35	1.97		-1.63	1.14	-0.93	2.72	-1.87	1.53	
28	-2.04	2.58	-1.67	3.16	-0.26	3.29	0.60	2.88	1.54	3.74	0.45	1.78	28
	0.44	3.09	-0.81	1.99	-1.44	1.36	-1.72	1.89	-1.61	2.70	-2.53	1.37	
29	-2.15	2.33	-1.22	3.06	-0.13	3.20	1.37	3.82			-0.23	1.71	29
	-0.21	2.17	-1.40	1.71	-1.87	1.47	-1.57				-2.66	1.69	
30	-2.66	2.15	-0.70	3.21	0.27	3.19	2.50	1.48			-0.77	2.11	30
	-0.86	2.02	-1.73	1.84	-2.26	1.60	3.78	-2.12			-2.55	2.16	
31	-2.14	2.66			0.39	3.27	2.55	1.13			-1.46	2.13	31
	-1.14	2.05			-2.54		3.68	-2.70			-2.59	2.30	
MAXIMUM	4.24		4.46		4.51		5.89		4.72		4.18		MAXIMUM
MINIMUM	-2.66		-2.78		-2.87		-2.70		-2.72		-3.12		MINIMUM

LOCATION: LAT. 38 02 27, LONG. 122 08 04, SW SEC 6, T2N, R2W,
ON CHANNEL SIDE OF WHARF IMMEDIATELY SE OF BENICIA.PERIOD OF RECORD: 1929 TO DATE
INTERMITTENT 1929 TO 1940

TABLE R-12 (CONTINUED)
 DAILY TIDES
 E03300 SUISIN BAY AT RENICIA
 (APRIL 1, 1973, THROUGH SEPTEMBER 30, 1973)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	-2.21 -2.87	2.04	-2.52 -1.15	2.17	NR	NR	4.12 2.30	-2.93 -0.31	3.08 2.84	-2.21 -1.05	2.18 3.23	-0.89 -1.50	1
2	2.26 1.89	-3.02 -2.65	3.47 2.02	-3.08 -0.80	NR	NR	3.90 2.33	-2.82 -0.58	2.59 3.05	-1.90 -1.03	1.77 3.00	-0.54	2
3	2.66 1.85	-3.33 -2.29	NR	NR	NR	NR	3.32 2.42	-2.81 -0.79	2.25 3.07	-1.52 -1.20	-1.71 0.01	1.50 2.87	3
4	2.99 1.98	-3.43 -1.54	NR	NR	NR	NR	2.77 2.53	-2.63 -0.96	1.82 3.23	-1.04	-1.68 0.62	1.58 3.16	4
5	3.39 2.16	-3.30 -0.81	NR	NR	NR	NR	2.27 2.82	-2.15	-1.22 -0.39	1.58 3.27	-1.47 0.57	1.72 2.72	5
6	3.63 2.05	-3.21 -0.38	NR	NR	2.63 2.68	-2.70	-0.98 -1.78	1.82 2.86	-1.33 0.29	1.48 3.26	-1.89 0.36	1.57 2.64	6
7	3.55 1.84	-3.31 -0.11	NR	NR	-0.70 -2.40	2.02 2.87	-1.26 -1.23	1.33 2.95	-1.53 0.52	1.58 3.19	-2.28 0.04	1.69 2.57	7
8	3.19 1.81	-3.39 0.19	NR	NR	-1.09 -1.66	1.70 3.14	-1.55 -0.61	1.06 3.03	-1.76 0.63	1.69 3.16	-2.33 -0.16	1.96 2.84	8
9	2.95 2.00	-3.20	NR	NR	-1.38 -0.81	1.51 3.30	-1.86 -0.02	1.22 3.19	-1.96 0.42	1.74 3.20	-2.25 -0.15	2.25 2.95	9
10	0.18 -3.01	2.72 2.29	NR	NR	-1.51 -0.27	1.66 3.41	-1.94 0.37	1.53 3.36	-2.14 0.28	1.87 3.23	-1.93 -0.83	2.30 2.79	10
11	-0.15 -2.84	2.56 2.46	NR	NR	-1.70 0.08	1.84 3.50	-2.01 0.54	1.77 3.49	-2.09 0.19	2.03 3.31	-2.01 -1.22	2.33	11
12	-0.89 -2.63	2.40 2.78	NR	NR	-2.13 0.12	1.83 3.48	-2.04 0.64	2.00 3.57	-2.14 -0.08	2.09 3.21	2.73 2.60	-1.90 -1.45	12
13	-1.28 -2.26	2.49 2.81	NR	NR	-2.30 0.34	1.95 3.47	-2.13 0.75	2.15 3.65	-2.26 -0.45	2.13	2.59 2.79	-1.78 -1.65	13
14	-2.08 -2.12	2.76 2.86	NR	NR	-2.52 0.22	1.82	-2.02 0.41	2.19	3.09 2.29	-2.16 -0.65	2.43 2.99	-1.54 -1.90	14
15	-2.43 -1.87	2.24	NR	NR	3.22 1.84	-2.84 0.34	3.56 2.09	-2.19 0.24	2.93 2.42	-2.07 -0.86	2.21 3.15	-1.20 -1.97	15
16	2.94 2.14	-2.66 -1.55	NR	NR	3.33 1.92	-2.72 0.35	3.47 2.19	-2.19 0.04	2.73 2.61	-1.88 -1.01	2.00 3.30	-0.85 -2.05	16
17	3.09 2.04	-2.83 -0.98	NR	NR	3.30 1.76	-2.73 0.08	3.25 2.22	-2.17 -0.17	2.45 2.85	-1.59 -1.13	1.83 3.24	-0.46 -2.10	17
18	2.85 1.76	-3.23 -0.69	NR	NR	2.85 1.77	-2.97 0.08	2.95 2.28	-2.13 -0.45	2.16 2.98	-1.36 -1.30	1.66 3.21	-0.04	18
19	2.95 1.64	-3.29 -0.42	NR	NR	2.66 1.99	-2.80 0.09	2.56 2.35	-2.04 -0.64	1.77 3.11	-0.93	-2.25 0.32	1.72 3.21	19
20	2.68 1.50	-3.51 -0.07	NR	NR	2.50 2.13	-2.59 -0.02	2.18 2.56	-1.90 -0.82	-1.61 -0.55	1.35 3.15	-2.22 0.07	1.82 3.00	20
21	2.65 1.48	-3.21 0.16	NR	NR	2.29 2.45	-2.28 -0.04	1.72 2.83	-1.61	-1.81 0.07	1.36 3.24	-2.56 -0.28	1.90 2.99	21
22	2.55 1.64	-2.91 0.61	NR	NR	1.89 2.49	-2.08	-1.09 -1.17	1.30 3.07	-2.08 0.17	1.38 3.31	-2.46 -0.52	2.24 3.13	22
23	2.50 1.73	-2.56 0.79	NR	NR	-0.73 -1.71	1.36 2.67	-1.54 -0.61	1.08 3.14	-2.35 0.20	1.54 3.41	-2.36 -1.09	2.38 2.99	23
24	2.24 1.81	-2.35	NR	NR	-1.20 -1.09	1.12 3.01	-1.96 -0.27	1.05 3.26	-2.59 -0.19	1.78 3.55	-2.15 -1.41	2.69 2.83	24
25	0.65 -2.15	2.02 2.06	NR	NR	-1.68 -0.69	1.09 3.42	-2.38 0.08	1.33 3.67	-2.55 -0.46	2.10 3.64	-2.20 -1.95	2.75	25
26	0.27 2.00	1.83 2.32	NR	NR	-2.09 -0.17	1.35 3.70	-2.41 0.44	1.82 4.14	-2.50 -0.63	2.41 3.55	2.66 2.85	-1.98 -2.26	26
27	-0.37 -1.85	1.84 2.71	NR	NR	-2.29 0.23	1.70 4.07	-2.33 0.32	2.17 4.14	-2.36 -1.20	2.45	2.46 3.02	-1.68 -2.26	27
28	-0.82 -1.52	2.10 2.98	NR	NR	-2.38 0.44	2.12 4.29	-2.48 -0.09	2.27 4.07	3.24 2.71	-2.34 -1.39	2.38 3.21	-1.13 -2.17	28
29	-1.41 -1.42	2.07 3.31	NR	NR	-2.62 0.18	2.20 4.26	-2.59 -0.42	2.40	3.08 3.03	2.00 -1.33	2.24 3.25	-0.67 -2.05	29
30	-1.98 -1.25	2.25 3.47	NR	NR	-2.80 -0.07	2.28	3.79 2.50	-2.60 -0.73	2.83 3.20	-1.55 -1.36	2.07 3.27	-0.25 -1.87	30
31			NR	NR			3.51 2.73	-2.39 -0.85	2.54 3.30	-1.14 -1.42			31
MAXIMUM	3.63		NR		NR		4.14		3.64		3.30		MAXIMUM
MINIMUM	-3.51		NR		NR		-2.93		-2.59		-2.56		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 5.7 - 4/6/58

ZERO OF GAGE: 1929 TO 1940 -2.21 USCGS
 1940 TO 1942 -5.00 USCGS
 1942 TO DATE 0.00 USCGS

TABLE B - 13 (CONT.)
 CONTENTS OF RESERVOIRS
 (IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A55527	FRENCHMAN LAKE NEAR CHILCOOT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	40,255	40,035	40,346	40,986	42,217	43,240	45,806	50,387	48,347	NR	41,857	39,161
2	40,242	40,022	40,346	41,078	42,257	43,308	45,891	50,209	NR	46,074	41,724	39,123
3	40,216	40,061	40,346	41,051	42,257	43,389	46,003	50,061	NR	46,003	41,592	39,085
4	40,190	40,151	40,372	41,025	42,271	43,444	46,158	50,017	48,216	NR	41,407	39,034
5	40,177	40,151	40,398	41,051	42,284	43,512	46,356	50,017	NR	45,905	41,249	39,021
6	40,177	40,138	40,411	41,012	42,337	43,566	46,625	50,061	NR	45,820	41,064	38,983
7	40,164	40,164	40,411	41,025	42,364	43,634	46,852	50,091	48,115	45,596	40,907	38,932
8	40,138	40,164	40,411	41,051	42,391	43,675	47,066	50,165	NR	NR	40,763	38,894
9	40,138	40,151	NR	41,078	42,418	43,730	47,309	50,239	NR	45,205	40,645	38,881
10	40,112	40,177	NR	41,078	42,565	43,812	47,582	50,313	NR	45,066	40,515	38,869
11	40,112	40,203	NR	41,117	42,619	43,907	47,855	50,373	NR	NR	40,372	38,843
12	40,086	40,190	NR	41,222	42,646	43,976	48,100	50,417	47,927	NR	40,255	38,856
13	40,086	40,229	NR	41,288	42,673	44,044	48,318	50,492	47,898	44,733	40,138	38,792
14	40,099	40,281	NR	41,301	42,686	44,113	48,564	50,566	NR	44,498	40,061	38,754
15	NR	40,268	NR	41,354	42,700	44,168	48,783	50,551	47,783	NR	40,022	38,742
16	NR	40,307	NR	41,579	42,727	44,195	48,943	50,581	47,639	44,140	39,957	38,704
17	NR	40,307	NR	41,645	42,780	44,278	49,119	50,596	NR	43,935	39,893	38,666
18	40,112	40,307	40,476	41,817	42,807	44,347	49,324	50,611	NR	NR	39,841	38,640
19	40,138	40,320	40,619	41,778	42,821	44,415	49,486	50,626	47,081	43,593	39,789	38,653
20	40,138	40,333	40,658	41,857	42,848	44,498	49,603	50,596	46,810	NR	39,751	38,602
21	40,125	40,320	40,724	41,857	42,875	44,581	49,751	50,581	46,639	NR	39,712	38,615
22	40,125	40,320	40,815	41,871	42,875	44,636	49,884	50,432	46,441	43,172	39,661	38,565
23	40,125	40,307	40,841	41,910	42,902	44,678	50,061	50,150	46,328	NR	39,596	38,565
24	40,125	40,333	40,881	41,964	42,969	44,761	50,209	49,854	NR	42,875	39,545	38,539
25	40,125	40,333	40,907	42,097	42,996	44,872	50,373	49,559	NR	42,754	39,532	38,514
26	40,112	40,346	40,920	42,017	43,064	45,010	50,447	49,221	46,271	42,646	39,481	38,476
27	40,099	40,333	40,946	42,070	43,159	45,163	50,492	48,914	NR	42,512	39,417	38,464
28	40,099	40,346	40,946	42,070	43,213	45,303	50,521	48,652	46,215	42,418	39,366	38,464
29	40,061	40,346	40,986	42,084	42,084	45,400	50,551	48,506	46,158	42,311	39,327	38,451
30	40,048	40,346	41,012	42,110	42,110	45,498	50,551	48,419	46,116 E	42,190	39,263	38,438
31	40,035	40,346	40,999	42,124	42,124	45,680	48,376	48,376	48,376	42,057	39,225	38,438
CHNG	-168	+311	+653	+1,125	+1,089	+2,467	+4,871	-2,175	-2,260	-4,059	-2,832	-787
MAX.	40,255	40,346	41,012	42,124	43,213	45,680	50,551	50,626	NR	NR	41,857	39,161
MIN.	40,035	40,022	40,346	40,986	42,217	43,240	45,806	48,376	NR	NR	39,225	38,438

WATER YEAR SUMMARY

CONTENT	MAXIMUM				CONTENT	MINIMUM			
	GAGE HT.	MO.	DAY	TIME		GAGE HT.	MO.	DAY	TIME
50,626	5584.8	5	19	2400	38,438	5576.0	9	30	2400

E - ESTIMATED
 NR - NO RECORD

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 53 36	120 11 17	NE 33 24N 16E					JAN 1962-DATE	1962		5500.00	USCGS

Station located at toe of Frenchman Dam on Little Last Chance Creek, 7.1 miles north of Chilcoot.

Frenchman Dam was completed in October 1961 and storage began in November 1961. The lake has a usable capacity of 53,582 acre-feet between elevations 5517 feet (invert of intake) and 5588 feet (crest of spillway). Not available for release, 1,835 acre-feet.

Daily content given is shown at 2400 hours.

Drainage area is 81.1 square miles.

TABLE B - 13 (CONT.)
 CONTENTS OF RESERVOIRS
 (IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A55383	LAKE DAVIS NEAR PORTOLA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71,681	70,652	69,088	NR	73,127	74,552	74,288	81,460	82,928	80,044	76,984	73,763	1
2	71,644	70,652	69,052	70,360	73,127	74,514	74,288	81,539	82,889	79,927	76,907	73,688	2
3	71,570	70,909	69,160	70,323	73,277	74,401	74,326	81,578	82,809	79,887	76,792	73,613	3
4	71,497	71,055	69,269	70,323	73,314	74,326	74,401	81,895	82,689	79,770	76,639	73,501	4
5	71,423	71,055	69,197	70,287	73,314	74,175	74,627	82,014	82,650	79,614	76,525	73,389	5
6	71,349	70,982	69,486	70,250	73,463	74,138	74,891	82,053	82,530	79,497	76,410	73,389	6
7	71,313	71,055	69,595	70,214	73,463	74,138	75,156	82,093	82,490	79,380	76,410	73,239	7
8	71,276	71,019	69,559	70,360	73,463	73,913	75,459	82,252	82,331	79,302	76,372	73,053	8
9	71,239	71,019	69,523	70,506	NR	73,800	75,762	82,292	82,212	79,185	76,181	73,016	9
10	71,276	71,092	69,486	70,506	NR	73,875	76,219	82,371	82,133 E	79,107	76,067	72,941	10
11	71,423	71,092	69,450	70,689	NR	73,800	76,639	82,411	82,014	79,107	76,029	72,867	11
12	71,386	71,055	69,450	70,945	NR	73,763	77,060	82,530	81,855	NR	75,838	72,755	12
13	71,349	71,239	69,414	71,092	NR	73,576	77,445	82,610	81,776	NR	75,762	72,644	13
14	71,349	71,349	69,378	71,129	73,988	73,501	77,791	82,769	81,657	NR	75,648	72,569	14
15	71,460	71,276	69,378	71,276	73,988	73,389	78,100	82,849	81,539	NR	75,497	72,495	15
16	71,497	71,276	69,341	72,050	74,025	73,389	78,332	82,928	81,420	NR	75,383	72,384	16
17	71,460	71,055	69,450	72,198	74,025	73,389	78,758	83,048	81,302	78,448	75,269	72,310	17
18	71,460	70,909	69,595	72,792	74,025	73,389	78,991	83,088	81,262	78,370	75,080	72,198	18
19	71,423	70,872	69,740	72,792	74,025	73,389	79,224	83,128	81,183	78,216	74,967	72,124	19
20	71,349	70,652	69,813	72,829	74,025	73,426	79,380	83,128	81,104	78,100	74,816	72,161	20
21	71,313	70,542	70,032	72,867	74,025	73,538	79,614	83,088	80,986 E	77,984	74,702 E	72,087	21
22	71,276	70,360	70,433	72,904	74,025	73,538	79,770	83,048	80,868	77,945	74,589 E	72,013	22
23	71,202	70,214	70,323	72,904	74,025	73,538	80,279	82,968	80,789	77,752	74,476	71,939	23
24	71,129	70,068	70,323	72,904	74,025	73,576	80,475	82,928	80,711	77,675	74,363	NR	24
25	71,092	69,922	70,323	72,978	74,063	73,650	80,829	82,889	80,632 E	77,560	74,476	NR	25
26	71,055	69,777	70,323	72,978	74,326	73,725	81,026	82,849	80,554 E	77,521	74,476	NR	26
27	71,019	69,595	70,323	72,978	74,476	73,800	81,183	82,809	80,475	77,368	74,439	NR	27
28	70,945	69,450	70,323	72,941	74,552	73,875	81,341	82,729	80,397	77,368	74,439	NR	28
29	70,835	69,305	70,323	72,941	73,950	73,950	81,381	82,650	80,279	77,329	74,288	NR	29
30	70,762	69,160	70,323	73,090	74,025	74,025	81,460	82,849	80,122	77,176	74,138	71,386 E	30
31	70,689		70,323 E	73,090	74,251			82,928		77,099	73,988		31
CHNG	-918	-1,529	+1,163	+2,767	+1,462	-301	+7,209	+1,468	-2,806	-3,023	-3,111	-2,602	CHNG
MAX.	71,681	71,349	70,433	73,090	74,552	74,552	81,460	83,128	82,928	80,044	76,984	73,763	MAX.
MIN.	70,689	69,160	69,052	70,214	73,127	73,389	74,288	81,460	80,122	77,099	73,988	71,386 E	MIN.

WATER YEAR SUMMARY

- ESTIMATED
 R - NO RECORD

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
83,128	5,774.7	5	19	2400	69,052	5771.0	12	2	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 53 03	120 38 31	SW 1 23N 13E					DEC 1966-DATE	1966		5700.00	USCGS

Station located near left abutment of Grizzly Valley Dam on Big Grizzly Creek, 5.3 miles north of Portola. Grizzly Valley Dam, creating Lake Davis, was completed in September 1967; however, storage by the contractor in order to test the outlet works, began on October 18, 1966. The lake has a usable capacity of 84,043 acre-feet between elevations 5700 feet (top of low-level intake) and 5775 feet (crest of spillway). Not available for release 108 acre-feet. Daily content given is shown at 2400 hours. Drainage area is 44.0 square miles.

TABLE B - 13 (CONT.)
 CONTENTS OF RESERVOIRS
 (IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A54473	ANTELOPE LAKE NEAR BOULDER CREEK GUARD STATION

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	NR	20,675	20,870	21,636	22,743	22,903	23,062	23,594	23,062	NR	21,103	20,077
2	20,737	20,666	20,861	21,636	22,743	22,912	23,044	23,575	23,044	21,919	21,049	20,059
3	20,728	20,675	20,879	NR	22,753	22,921	23,034	23,555	23,006	NR	21,013	20,024
4	20,719	20,790	20,879	NR	22,771	22,921	23,034	23,575	22,987	NR	20,978	19,990
5	20,710	20,808	20,861	NR	22,771	22,912	23,091	23,555	22,968	NR	20,951	19,964
6	20,701	20,808	20,861	NR	22,771	22,903	23,176	23,508	22,950	NR	20,906	19,929
7	20,701	20,817	20,861	NR	22,771	22,884	23,232	23,498	22,931	NR	20,870	19,903
8	20,692	20,817	20,861	21,636	22,781	22,874	23,261	23,508	22,912	NR	20,835	19,868
9	20,692	20,817	20,861	NR	22,790	22,865	23,318	23,527	22,893	NR	20,799	19,833
10	20,710	20,826	20,861	NR	22,828	22,921	23,384	23,527	22,874	NR	20,764	19,808
11	20,737	20,844	20,861	NR	22,837	22,940	23,460	23,527	22,828	21,663	20,746	19,782
12	20,746	20,844	20,861	NR	22,837	22,940	23,508	23,536	22,771	NR	20,701	19,756
13	20,746	20,853	20,861	NR	22,837	22,921	23,517	23,527	NR	NR	20,639	19,730
14	20,746	20,879	20,870	NR	22,818	22,912	23,498	23,508	NR	NR	20,613	19,695
15	20,764	20,897	20,861	22,020	22,790	22,903	23,479	23,498	NR	NR	20,577	19,669
16	20,799	20,915	20,870	22,195	22,781	22,903	23,432	23,460	NR	NR	20,533	19,635
17	20,808	20,915	20,888	NR	22,771	22,921	23,422	23,413	NR	21,518	20,498	19,601
18	20,817	20,915	20,942	22,482	22,771	22,921	23,403	23,365	NR	NR	20,454	19,575
19	20,817	20,924	21,031	22,510	22,771	22,921	23,356	23,299	22,473	NR	20,418	19,566
20	20,799	20,924	21,103	22,547	22,771	22,931	23,327	23,261	NR	NR	20,392	19,558
21	20,799	20,924	21,202	22,575	22,781	22,931	23,308	23,223	22,380	NR	20,348	19,532
22	20,799	20,915	21,400	NR	22,781	22,931	23,346	23,223	NR	NR	20,313	19,506
23	20,781	20,906	21,473	NR	22,781	22,931	23,432	23,195	NR	21,364	20,269	19,489
24	20,764	20,897	21,518	NR	22,837	22,940	23,479	23,195	NR	NR	20,243	19,481
25	20,755	20,888	21,545	NR	22,837	22,968	23,546	23,157	22,241	NR	20,225	19,463
26	20,746	20,888	21,563	NR	22,837	23,006	23,622	23,138	NR	NR	20,225	19,438
27	20,737	20,888	21,600	NR	22,884	23,044	23,689	23,100	NR	NR	20,225	19,421
28	20,728	20,879	21,618	NR	22,893	23,053	23,718	23,081	NR	NR	20,216	19,395
29	20,701	20,870	21,618	22,734	23,053	23,699	23,699	23,062	NR	NR	20,173	19,378
30	20,701	20,870	21,627	NR	23,053	23,632	23,632	23,053	21,993 E	21,157	20,155	19,361
31	20,684		21,636	22,753 E		23,062		23,081		21,121 E	20,120	
CHNG	-44	+186	+766	+1,117	+140	+169	+570	-551	-1,088	-872 E	-1,001	-759
MAX.	20,817	20,924	21,636	NR	22,893	23,062	23,718	23,594	23,062	NR	21,103	20,077
MIN.	20,684	20,666	20,861	NR	22,743	22,865	23,034	23,053	NR	NR	20,120	19,361

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
23,718	5003.2	4	28	2400	19,361	4998.4	9	30	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 10 42	120 36 20	SE 22 27N 12E					JAN 1964-DATE	1964		4900.00	USCGS

Station located at toe of Antelope Dam on Indian Creek, 1.3 miles south of Boulder Creek Guard Station, 12 miles northeast of Genesee.

Antelope Dam was completed in July 1964; however, usable storage began on November 25, 1963. The lake has a usable capacity of 22,239 acre-feet between elevations 4950 feet (lip of intake tower) and 5002 feet (crest of spillway).

Daily content given is shown at 2400 hours except from October 1 through March 15. Data for this period is from observations made during the day by field personnel.

Drainage area is 68.6 square miles.

TABLE B - 13 (CONT.)

CONTENTS OF RESERVOIRS
IN THOUSANDS OF ACRE FEET

WATER YEAR	STATION NO.	STATION NAME
1973	A51141	LAKE OROVILLE NEAR OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2,609	2,480	2,640	2,870	2,811	2,883	2,997	3,322	3,512	3,390	3,127	2,871	1
2	2,605	2,479	2,643	2,874	2,807	2,886	3,007	3,324	3,523	3,383	3,111	2,873	2
3	2,601	2,476	2,639	2,876	2,811	2,886	3,012	3,327	3,532	3,369	3,095	2,876	3
4	2,596	2,482	2,641	2,872	2,813	2,883	3,020	3,334	3,536	3,364	3,096	2,866	4
5	2,587	2,485	2,645	2,865	2,811	2,877	3,033	3,347	3,532	3,350	3,097	2,858	5
6	2,577	2,487	2,653	2,868	2,808	2,872	3,048	3,359	3,525	3,337	3,081	2,845	6
7	2,573	2,495	2,655	2,869	2,807	2,861	3,064	3,359	3,514	3,337	3,066	2,836	7
8	2,571	2,499	2,662	2,864	2,802	2,848	3,085	3,362	3,505	3,340	3,058	2,833	8
9	2,563	2,504	2,668	2,869	2,798	2,834	3,092	3,363	3,507	3,330	3,042	2,841	9
10	2,561	2,509	2,674	2,866	2,812	2,823	3,106	3,362	3,514	3,324	3,024	2,835	10
11	2,560	2,519	2,678	2,878	2,810	2,821	3,122	3,363	3,503	3,315	3,021	2,830	11
12	2,557	2,527	2,686	2,901	2,803	2,824	3,145	3,380	3,493	3,306	3,025	2,822	12
13	2,553	2,532	2,691	2,907	2,794	2,835	3,165	3,402	3,489	3,295	3,012	2,816	13
14	2,552	2,543	2,695	2,902	2,792	2,842	3,183	3,406	3,484	3,286	2,998	2,809	14
15	2,553	2,547	2,698	2,899	2,791	2,851	3,201	3,414	3,480	3,281	2,982	2,805	15
16	2,549	2,558	2,705	2,924	2,789	2,860	3,212	3,426	3,482	3,276	2,965	2,799	16
17	2,546	2,569	2,718	2,887	2,796	2,873	3,224	3,434	3,486	3,265	2,954	2,789	17
18	2,543	2,579	2,732	2,854	2,798	2,886	3,225	3,451	3,486	3,253	2,955	2,783	18
19	2,536	2,588	2,745	2,817	2,794	2,893	3,222	3,473	3,478	3,241	2,956	2,776	19
20	2,528	2,596	2,749	2,799	2,791	2,905	3,226	3,494	3,466	3,231	2,948	2,773	20
21	2,527	2,604	2,756	2,795	2,788	2,913	3,239	3,501	3,456	3,232	2,939	2,770	21
22	2,527	2,609	2,766	2,790	2,787	2,909	3,251	3,502	3,447	3,235	2,932	2,771	22
23	2,523	2,617	2,793	2,793	2,785	2,907	3,256	3,496	3,450	3,223	2,922	2,773	23
24	2,519	2,621	2,806	2,792	2,805	2,919	3,259	3,490	3,451	3,205	2,915	2,770	24
25	2,514	2,626	2,817	2,791	2,827	2,931	3,261	3,486	3,437	3,184	2,915	2,760	25
26	2,507	2,628	2,824	2,790	2,840	2,937	3,263	3,500	3,428	3,174	2,918	2,746	26
27	2,501	2,632	2,830	2,798	2,861	2,945	3,268	3,508	3,416	3,161	2,909	2,735	27
28	2,500	2,635	2,837	2,812	2,876	2,953	3,288	3,517	3,403	3,159	2,904	2,728	28
29	2,499	2,638	2,841	2,811		2,959	3,308	3,516	3,391	3,160	2,890	2,729	29
30	2,491	2,639	2,852	2,813		2,967	3,316	3,513	3,389	3,150	2,878	2,729	30
31	2,484		2,861	2,813		2,983		3,515		3,139	2,867		31
MEAN	-127,600	+155,000	+222,000	-47,820	+62,520	+10,720	+333,200	+198,600	-125,300	-250,600	-271,300	-138,850	MEAN
MAX.	2,609	2,639	2,861	2,924	2,876	2,983	3,316	3,517	3,536	3,390	3,127	2,876	MAX.
MIN.	2,484	2,476	2,639	2,790	2,785	2,821	2,997	3,322	3,389	3,139	2,867	2,728	MIN. AC. FT.

WATER YEAR SUMMARY

- ESTIMATED
NR - NO RECORD

CONTENT	MAXIMUM					DISCHARGE	MINIMUM				
	GAGE HT.	MO.	DAY	TIME	GAGE HT.		MO.	DAY	TIME		
3,536,000	899.88	6	4	2400	2,476,000	824.15	11	3	2400		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 32 05	121 28 25	SW 1 19N 4E					NOV 1967-DATE	1967		0.47	USCGS

Recorder located near intake structure at left end of Oroville Dam, on the Feather River, 4 miles northeast of Oroville. Lake Oroville has a normal gross storage capacity of 3,538,000 acre-feet at the normal maximum water surface elevation of 900 feet. The active operating storage capacity is 2,686,000 acre-feet above the elevation 640 feet (minimum power pool). Drainage area is 3,611 square miles. Storage began November 14, 1967.

TABLE B - 13 (CONT.)
CONTENTS OF RESERVOIRS
 (IN THOUSANDS OF ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A65105	CAMP FAR WEST RESERVOIR NEAR SHERIDAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26.5 E	30.1	65.7	104.6	107.0	108.1 E	106.1 E	106.0	105.7 E	90.2	71.9	60.8	1
2	26.5 E	30.5	66.7	105.5	106.8	107.9 E	106.1 E	106.1	105.7 E	89.2	71.3	61.0	2
3	26.4	31.3	67.5	105.7	107.6	107.9 E	106.1 E	106.1	105.5 E	88.2	70.9	61.1	3
4	26.4	33.3	68.4	105.7	108.5	107.9 E	106.4 E	106.1	105.3 E	86.7	70.5	61.1	4
5	26.3	34.2	68.7	105.7	108.0	107.9 E	106.5 E	106.1	105.2	86.2	69.8	61.2	5
6	26.3	34.7	68.8	105.7	108.0	107.9 E	106.4 E	106.1	105.1	85.6	69.4	61.4	6
7	26.1	35.4	68.9	105.7	108.4	107.7 E	106.4 E	106.1	104.8	85.3	68.7	61.5	7
8	26.1	36.6	69.1	105.9	107.9	107.7 E	106.2 E	106.1	104.6	84.6	68.2	61.4	8
9	26.1	37.7	69.2	105.9	107.9	107.2 E	106.1 E	106.1	104.6	84.2	67.8	61.5	9
10	26.2	39.1	69.4	105.9	110.3	107.0 E	106.1 E	106.1	104.4	83.8	67.4	61.5	10
11	26.6	41.8	69.5	113.3	110.5	107.0 E	106.1 E	106.1	104.2	83.3	67.0	61.7	11
12	26.9	42.9	69.6	113.9	109.0	106.8 E	106.2	106.1	104.0	82.7	66.6	61.8	12
13	27.0	43.5	69.7	111.1	108.1	106.6 E	106.4	106.1	104.0	81.9	66.0	61.8	13
14	27.1	46.2	69.8	109.6	109.2	106.6 E	106.4	106.1	103.8	81.4	65.6	61.9	14
15	27.2	49.2	70.0	109.4	108.3	106.6 E	106.4	106.0	103.5	80.8	65.0	61.8	15
16	27.3	53.9	70.3	115.0 E	107.7	106.6 E	106.4	106.0	103.0	80.3	64.6	61.9	16
17	27.4	56.3	73.2	113.0 E	107.0	106.6 E	106.4	105.9	102.6	79.8	64.2	61.7	17
18	27.6	57.9	75.0	110.9	106.6	106.6 E	106.2	106.0	102.1	79.3	63.8	61.7	18
19	27.9	58.7	79.5	109.2	106.4	106.6 E	106.4	105.9	101.6	78.7	63.2	61.4	19
20	28.1	59.8	83.0 E	108.1	106.0	106.6 E	106.4	105.9	100.6	78.2	62.9	61.1	20
21	28.3	61.1	84.8 E	107.7	106.3	106.8 E	105.9	105.9	99.9	77.9	62.6	61.2	21
22	28.5	62.2	88.2	107.4	106.4	106.8 E	106.1	105.8	98.8	77.4	62.4	61.2	22
23	28.7	63.2	90.7	107.2	106.3	106.6 E	106.4	105.9	97.8	76.9	61.9	61.4	23
24	28.9	63.6	93.3	107.0	106.3	106.4 E	106.4	105.9	97.1	76.4	61.5	61.4	24
25	29.0	63.9	95.2	107.2	106.4	106.1 E	106.4	105.9	96.1	75.9	61.1	61.4	25
26	29.2	64.2	96.7	107.2	106.6	106.1 E	106.4	105.9	95.2	75.3	60.8	61.5	26
27	29.2	64.5	98.3	106.8	109.6	106.1 E	106.4	105.9	94.2	74.7	60.5	61.7	27
28	29.4	64.7	99.9	106.8	106.3	106.1 E	106.4	105.9	93.1	74.2	60.4	61.7	28
29	29.6	64.9	101.4	106.8	106.1	106.1 E	106.1	105.9	92.2	73.5	60.5	62.1	29
30	29.7	65.2	102.5	107.2	106.1	106.1 E	105.9	105.9	91.1	72.9	60.7	62.4 E	30
31	29.9		103.5	107.2	106.1	106.1 E		105.9		72.4	60.7		31
CHNG	+3.4	+35.1	+37.8	+2.6	-0.7	-2.0	-0.2	-0.1	-14.6	-17.8	-11.2	+1.6	CHNG
MAX.	29.9	65.2	103.5	115.0 E	110.5	108.1 E	106.5 E	106.1	105.7 E	90.2	71.9	62.4 E	MAX
MIN.	26.1	30.1	65.7	104.6	106.0	106.1 E	105.9	105.8	91.1	72.4	60.4	60.8	MIN

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
115.0 E		1	16	2400	26.1		10	7	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 03 00	121 18 53	SW 21 14N 6E					MAR 1966-DATE	1966		0.00	USCGS

Station located near left abutment of Camp Far West Dam on the Bear River 6.4 miles east of Wheatland and 11.8 miles northwest of Sheridan. Camp Far West Reservoir, owned and operated by the South Sutter Irrigation District, began storage September 30, 1963. Station was installed March 1966, jointly by the South Sutter Irrigation District and the Department of Water Resources. The lake has a usable capacity of 139,600 acre-feet between the elevation 175.00 feet and 316.3 feet (top of spillway gate). Drainage area is 283 square miles. Daily content given is shown at 2400 hours.

TABLE B-14
DAILY INFLOW

This table presents the daily inflow rates to Folsom, Shasta, and Whiskeytown Lakes. The daily inflow rates were computed from information about changes in storage, releases, spills, precipitation, and evaporation. The computed values represent the flow at each damsite if the dam did not exist.

TABLE B - 14 (CONT.)

DAILY INFLOW

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A21051	INFLOW TO SHASTA LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1,530	3,550	4,740	4,930	12,490	28,790	11,420	7,690	6,940	2,130	4,240	1,890	1
2	4,820	4,250	4,220	7,320	11,900	24,890	8,460	6,980	5,410	4,490	4,060	3,180	2
3	4,530	6,510	6,430	4,880	11,920	21,420	7,370	8,130	5,980	4,430	4,660	1,810	3
4	4,910	6,890	4,310	6,190	20,850	18,370	7,070	9,350	4,830	4,230	940	4,140	4
5	4,990	5,820	5,290	6,650	25,690	17,290	7,400	10,690	5,550	4,580	2,380	4,380	5
6	4,830	5,230	4,300	4,920	17,430	19,820	8,620	10,010	4,830	5,000	3,860	4,640	6
7	2,650	4,770	4,630	4,810	16,050	17,370	7,250	7,950	4,930	2,220	4,600	3,920	7
8	2,020	5,290	4,880	6,130	14,550	14,720	8,580	6,810	5,110	1,380	3,630	2,040	8
9	5,180	5,980	4,230	9,220	17,400	14,600	9,950	6,900	4,180	4,870	3,680	2,220	9
10	7,130	7,940	3,920	8,040	27,030	15,400	10,960	6,980	4,130	5,770	4,080	4,170	10
11	8,940	8,920	3,490	16,390	27,300	14,640	11,540	7,820	4,520	4,270	2,200	4,980	11
12	5,720	5,850	5,330	22,520	23,430	13,070	10,080	9,510	4,730	3,630	2,070	4,920	12
13	5,410	12,860	4,460	24,330	20,100	12,510	10,880	9,550	4,550	4,400	4,120	3,530	13
14	5,010	13,360	3,360	19,340	22,020	12,250	10,280	8,020	4,040	1,660	4,040	4,360	14
15	5,680	13,390	4,760	18,720	20,040	12,130	10,220	7,840	4,900	2,860	4,710	1,760	15
16	5,290	15,720	4,120	67,480	17,690	11,810	10,160	7,890	1,530	4,890	5,040	2,890	16
17	6,210	9,710	7,690	39,910	15,240	10,770	8,150	9,550	2,780	4,540	4,280	3,160	17
18	5,350	9,080	9,670	54,380	13,120	10,240	9,860	6,970	5,550	4,820	2,980	4,540	18
19	5,240	9,940	14,230	34,990	12,300	13,580	7,970	7,060	6,050	4,320	1,800	4,030	19
20	4,280	9,540	10,500	23,550	11,040	14,100	7,980	9,170	6,140	4,020	1,310	3,930	20
21	3,780	5,860	15,900	18,930	10,970	14,790	7,650	7,670	4,710	3,360	2,700	2,810	21
22	4,580	5,980	25,250	15,490	10,460	13,230	9,290	6,940	3,720	2,040	3,930	4,280	22
23	4,090	7,010	18,490	14,280	10,910	12,940	9,410	7,400	3,170	4,980	3,820	4,070	23
24	4,460	5,740	15,430	12,660	19,660	11,520	9,000	6,850	1,020	3,780	4,080	3,810	24
25	7,390	5,280	12,400	11,460	31,130	12,060	10,120	7,220	5,840	4,960	1,570	3,800	25
26	7,710	5,630	10,070	9,860	27,850	10,900	9,730	7,540	4,350	3,590	1,680	4,320	26
27	3,650	6,040	10,480	10,500	27,980	11,360	10,410	7,450	4,960	4,810	5,140	4,090	27
28	2,780	5,110	8,740	7,710	27,010	11,490	9,090	6,600	4,650	2,710	4,440	3,920	28
29	2,060 A	4,630	8,820	11,510	12,590	10,660 B	6,250	5,610	2,540	3,020	3,020	3,600	29
30	2,070	5,200	7,240	10,240	12,920	12,920	9,610	5,750	1,700	3,470	4,330	3,530	30
31	1,720		9,440	11,430		11,820		6,410		4,330	3,900		31
MEAN	4,645	7,369	8,285	16,735	18,699	14,625	9,306	7,773	4,548	3,841	3,461	3,624	MEAN
MAX.	8,940	15,720	25,250	67,480	27,980	28,790	11,540	10,690	6,940	5,770	5,140	4,980	MAX.
MIN.	1,530	3,550	3,360	4,810	10,460	10,240	7,070	5,750	1,020	1,380	940	1,760	MIN.
AC. FT.	285,810	438,510	509,400	1,028,980	1,038,480	899,300	552,850	477,930	270,630	236,200	212,810	215,650	AC. FT.

A - 25-Hour Day
B - 23-Hour Day

WATER YEAR SUMMARY

E - ESTIMATED
NR - NO RECORD

MEAN INFLOW	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
8,519											6,166,550

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 43 10	122 25 10	NW 15 33N 5W				NOV 1942-DATE	NOV 1942-DATE	1942		0.00	USCGS

The figures contained herein are computed inflow to Shasta Lake and take into account change in storage, release, spill, precipitation and evaporation. They are representative of the natural flow which would pass the damsite (9.5 miles north of Redding) if the dam had not been constructed. Records furnished by USBR. Drainage area, excluding Goose Lake Basin, is 6,665 square miles.

Shasta Lake has a usable capacity of 4,377,000 acre-feet between elevations 737.75 and 1065.0 feet above mean sea level. Not available for release, 115,700 acre-feet.

TABLE B - 14 (CONT.)

DAILY INFLOW
IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A36171	INFLOW TO WHISKEYTOWN LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3,590	1,530	510	710	1,570	3,000	3,640	840	2,590	2,780	2,640	2,700	1
2	1,630	970	600	720	1,470	2,500	3,510	800	2,240	2,760	2,640	2,710	2
3	1,570	1,000	610	780	1,580	2,260	3,550	830	1,990	2,740	2,640	2,660	3
4	1,500	940	540	690	3,360	2,000	3,540	690	1,940	2,740	2,600	2,580	4
5	1,530	880	550	640	3,890	1,770	3,590	740	2,000	2,710	2,660	2,660	5
6	1,490	930	490	640	3,390	2,380	3,680	770	2,460	2,720	2,580	2,070	6
7	1,480	990	530	660	3,690	2,230	2,570	790	2,530	2,740	2,680	1,900	7
8	1,590	940	490	740	3,390	2,360	2,490	750	2,590	2,680	2,620	2,020	8
9	1,740	1,060	440	890	3,820	2,770	2,630	700	2,490	2,740	2,570	1,930	9
10	2,010	1,210	500	840	5,260	4,040	840	1,370	2,720	2,590	2,680	1,980	10
11	2,010	1,460	440	1,940	4,130	4,740	1,410	3,780	2,780	2,720	2,610	1,980	11
12	1,870	630	1,050	2,510	3,440	4,540	2,420	3,870	2,850	2,680	2,740	2,020	12
13	1,570	2,030	1,010	2,430	3,050	4,100	2,560	3,900	2,790	2,680	2,640	2,040	13
14	1,620	2,160	1,000	1,940	3,310	2,730	2,500	3,860	2,760	2,730	2,760	2,020	14
15	1,970	2,660	1,060	2,420	3,160	2,900	2,460	3,860	2,760	2,650	2,690	1,940	15
16	1,620	3,810	1,110	6,630	2,840	2,770	2,460	3,880	2,760	2,720	2,560	1,870	16
17	1,490	1,720	1,220	4,360	2,740	3,500	3,020	3,880	2,790	2,650	2,650	1,830	17
18	1,520	1,290	1,780	6,180	2,590	3,450	2,910	3,830	2,750	2,800	2,600	1,800	18
19	1,470	1,000	1,910	3,780	2,320	3,880	2,860	3,790	2,760	2,560	2,690	2,100	19
20	1,480	850	1,910	2,530	2,380	4,150	2,860	3,790	2,770	2,800	2,690	1,880	20
21	1,430	800	2,070	1,990	2,240	4,290	2,860	3,720	2,770	2,580	2,740	1,860	21
22	1,480	690	2,310	1,610	2,040	4,080	2,850	3,720	2,710	2,630	2,690	2,180	22
23	1,430	700	1,970	1,360	2,030	3,780	2,940	3,720	2,760	2,570	2,590	2,180	23
24	1,550	640	1,620	1,320	4,110	3,770	2,860	3,860	2,760	2,620	2,640	1,920	24
25	1,630	650	2,130	1,210	5,070	3,700	2,870	3,690	2,710	2,580	2,430	1,540	25
26	1,650	580	1,190	1,110	5,020	3,710	2,710	3,710	2,780	2,620	260	1,890	26
27	1,610	580	1,500	1,070	4,240	3,660	2,900	3,710	2,700	2,650	2,440	1,910	27
28	1,630	610	1,280	950	3,390	3,710	2,870	3,720	2,780	2,690	2,810	1,880	28
29	1,630 A	550	1,310	1,270	3,560	2,920 B	3,720	2,730	2,730	2,680	2,640	1,880	29
30	1,610	560	1,260	1,130	3,640	2,770	3,720	2,670	2,720	2,780	2,740	1,900	30
31	1,530		690	1,600	3,590		3,700			2,640	2,680		31
MEAN	1,675	1,147	1,132	1,827	3,197	3,341	2,802	2,829	2,623	2,685	2,568	2,061	MEAN
MAX.	3,590	3,810	2,310	6,630	5,260	4,740	3,680	3,900	2,850	2,800	2,810	2,710	MAX.
MIN.	1,430	550	440	640	1,470	1,770	840	690	1,940	2,560	260	1,540	MIN.
AC.FT.	103,140	68,270	69,580	112,370	177,560	205,410	166,470	173,970	156,080	165,090	157,890	122,640	AC.FT.

A - 25-Hour Day
B - 23-Hour Day

WATER YEAR SUMMARY

ESTIMATED NO RECORD	MEAN	MAXIMUM					MINIMUM					TOTAL
	INFLOW	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
	2,319											1,678,470

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 37 03	122 31 31	32N 6W				MAY 1963-DATE	MAY 1963-DATE	1963		0.00	USCGS

The figures contained herein are computed inflow to Whiskeytown Reservoir and take into account change in storage, release, spill, precipitation, and evaporation. Records furnished by USBR. Drainage area is 200 square miles.

Whiskeytown Reservoir has a usable capacity of 241,100 acre-feet between elevations 1100.0 feet and 1210.0 feet above mean sea level. Not available for release, 27,500 acre-feet.

TABLE B - 14 (CONT.)
DAILY INFLOW
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A71120	INFLOW TO FOLSOM LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D.
1	1,620	1,550	1,940	2,840	5,880	9,760	3,780	5,790	5,170	1,250	1,500	1,800	
2	1,460	1,850	2,110	2,890	4,740	9,050	3,990	5,550	4,830	780	1,630	1,020	
3	1,690	2,360	1,670	3,770	5,190	9,150	4,760	5,520	4,270	1,240	1,500	720	
4	1,790	3,550	2,160	3,610	6,200	8,860	4,170	6,040	4,510	730	1,610	1,400	
5	1,420	3,550	3,050	3,480	6,020	7,990	4,480	5,220	4,560	1,200	1,110	1,400	
6	1,530	2,240	2,650	3,480	6,570	9,150	4,620	4,460	3,950	1,600	880	1,840	
7	1,230	2,560	2,960	3,150	8,680	8,320	5,460	3,620	3,740	1,370	1,700	1,800	
8	1,610	2,310	2,890	3,040	8,100	8,000	4,930	4,840	3,450	1,440	1,810	1,830	
9	1,820	2,410	2,360	6,360	7,290	7,120	4,270	5,530	3,080	1,090	1,440	1,620	
10	1,730	2,600	2,060	7,310	13,290	7,020	5,380	5,410	2,440	1,430	1,730	1,740	
11	1,960	3,150	1,950	13,560	17,290	7,790	5,700	6,020	2,650	1,830	1,550	1,880	
12	1,970	2,160	2,570	47,350	14,120	6,540	5,910	6,660	3,520	1,800	1,440	1,860	
13	1,810	2,130	2,630	19,460	10,940	6,860	5,920	7,180	3,040	1,910	1,700	1,810	
14	1,760	2,770	2,450	11,420	10,810	6,630	5,810	8,690	2,770	2,160	1,550	1,840	
15	1,650	3,490	2,470	8,720	9,550	6,370	4,880	7,610	2,720	1,140	1,560	1,790	
16	1,900	4,290	2,320	29,220	8,630	6,110	4,430	7,720	2,680	540	1,780	1,290	
17	1,640	3,310	4,420	20,360	7,950	6,020	5,490	7,860	2,050	1,840	1,780	1,500	
18	1,740	2,760	7,520	18,440	6,950	5,560	5,210	8,260	1,950	1,880	1,650	1,740	
19	1,490	2,060	12,430	13,690	6,120	5,220	4,690	7,750	2,120	1,790	1,480	1,670	
20	1,650	2,470	10,240	10,090	6,070	6,530	4,580	7,660	1,870	1,840	2,120	2,070	
21	1,860	1,780	6,460	8,680	6,040	6,400	4,390	6,850	2,150	1,600	1,360	1,930	
22	1,580	1,840	7,780	7,050	5,860	6,290	4,230	5,450	2,180	1,260	1,460	2,020	
23	1,830	1,740	6,330	6,500	5,540	5,910	4,150	5,870	2,460	1,060	1,500	1,480	
24	1,970	1,980	6,020	5,910	5,670	5,380	5,350	6,000	1,820	1,680	1,560	1,650	
25	1,790	1,550	4,150	5,730	5,150	4,540	5,470	6,340	1,480	2,260	1,150	1,910	
26	1,660	1,190	4,410	5,730	6,060	4,030	6,090	5,280	2,480	2,170	720	1,890	
27	1,810	1,690	4,480	5,400	10,320	4,920	6,940	4,510	2,470	1,670	850	2,040	
28	1,620	1,680	4,400	4,800	13,370	5,040	7,100	4,260	2,230	1,770	1,760	2,020	
29	1,630 A	1,710	3,800	4,730	4,730	4,730	6,440 B	5,390	2,250	1,100	1,840	2,020	
30	1,410	1,810	3,660	6,670	4,950	4,950	5,890	6,000	2,220	1,420	1,790	1,320	
31	1,490		3,030	6,740	5,390	5,390		5,660		1,790	1,730		
MEAN	1,681	2,351	4,109	9,683	8,157	6,633	5,150	6,097	2,904	1,505	1,524	1,697	
MAX.	1,970	4,290	12,430	47,350	17,290	9,760	7,100	8,690	5,170	2,260	2,120	2,070	
MIN.	1,230	1,550	1,940	2,840	4,740	4,030	3,780	3,620	1,480	540	720	720	
AC. FT.	103,510	139,920	252,640	595,410	453,030	407,870	305,940	374,880	172,780	92,510	93,700	100,960	

A - 25-Hour Day
 B - 23-Hour Day

WATER YEAR SUMMARY

E - ESTIMATED
 NR - NO RECORD

MEAN INFLOW	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
4,273											3,093,150

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 42 29	121 09 22	NE 24 10N 7E				FEB 1955-DATE	FEB 1955-DATE	1955		0.00	USCGS

The figures contained herein are computed inflow to Folsom Reservoir and take into account change in storage, release, spill, precipitation, and evaporation. They are representative of the natural flow which would pass the damsite (2.3 miles northeast of Folsom) if the dam had not been constructed. Records furnished by USBR. Drainage area is 1,861 square miles (Revised).

TABLE B-15
GAGING STATIONS
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

A00615	Lindo Channel near Chico	12-20-72
B91160	Threemile Slough at Sacramento River	11- 4-72
B95400	Old River at Head	10- 1-72

DISCONTINUED STATIONS

A00600	Lindo Channel near Chico	12- 4-72
A31395	Grindstone Creek near Elk Creek	6-30-73

PUBLICATIONS DISCONTINUED

(Tide tables only)

A02100	Sacramento River at Sacramento	9-30-72
A02105	Sacramento River at Sacramento Weir	9-30-72

PUBLISHED DATA FROM PRIOR YEARS

None

TABLE B-16

CORRECTIONS AND REVISIONS TO
PREVIOUSLY PUBLISHED REPORTS

Corrections and revisions pertain to bulletins of surface water flows published from 1924 to date. These publications are:

Report 1. "Report of Sacramento-San Joaquin Water Supervision". Published from 1924 through 1955.

Report 2. Bulletin No. 23, "Surface Water Flow". Published from 1956 through 1962.

Report 3. "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys". Published from 1913 through 1956.

Report 4. Bulletin No. 130, "Hydrologic Data: Volume II, Northeastern California". Published from 1963 to date.

Corrections and revisions to surface water data made prior to publication of Bulletin No. 130-68, "Hydrologic Data: Volume II, Northeastern California", are in Bulletin No. 130-67. This report contains corrections made since publication of Bulletin No. 130-67.

TABLE B-16

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision				Change or Revision																							
Report	Page	Mile & Bank	Name	Item	From	To																					
4	286		Mokelumne River near Thornton	<u>1965</u> Datum of Gage	1964, -3.00 USCGS	1964, 0.00 USCGS																					
4	151		Sacramento River, Sacramento to Redding	<u>1966</u> Total Diversions October 28,490 November 4,263 December 2,860 January 1,585 February 1,468 March 2,870 April 149,695 May 211,918 June 207,730 July 191,624 August 172,832 September 66,143 TOTAL 104,148 Average cubic feet per second October 463 November 72 December 46 January 26 February 27 March 47 April 2,516 May 3,446 June 3,401 July 3,116 August 2,811 September 1,112 TOTAL 1,439 Monthly use in percent of seasonal October 2.7 November 0.4 December 0.3 January 0.2 February 0.1 March 0.3 April 14.4 May 20.3 June 19.9 July 18.4 August 16.6 September 6.4	66,118 17,939 6,887 1,772 1,592 7,856 302,010 378,193 353,650 350,907 313,752 119,869 1,920,545 1,075 301 112 29 29 128 5,076 6,151 5,943 5,707 5,103 2,015 2,653 3.4 0.9 0.4 0.1 0.1 0.4 15.7 19.7 18.4 18.3 16.4 6.2																						
4	245, 246		Sacramento River at Collinsville	Datum of Gage	<table border="1"> <thead> <tr> <th colspan="3">Datum of Gage</th> </tr> <tr> <th>Period</th> <th>Zero on</th> <th>Ref.</th> </tr> <tr> <th>From</th> <th>To</th> <th>Gage Datum</th> </tr> </thead> <tbody> <tr> <td>1929</td> <td>0.00</td> <td>USED</td> </tr> <tr> <td></td> <td>-3.05</td> <td>USCGS</td> </tr> <tr> <td>1964</td> <td>-3.54</td> <td>USCGS</td> </tr> <tr> <td>1964</td> <td>-3.00</td> <td>USCGS</td> </tr> </tbody> </table>		Datum of Gage			Period	Zero on	Ref.	From	To	Gage Datum	1929	0.00	USED		-3.05	USCGS	1964	-3.54	USCGS	1964	-3.00	USCGS
Datum of Gage																											
Period	Zero on	Ref.																									
From	To	Gage Datum																									
1929	0.00	USED																									
	-3.05	USCGS																									
1964	-3.54	USCGS																									
1964	-3.00	USCGS																									
4	158		Cache Creek above Rumsey	<u>1967</u> Maximum Discharge of Record Discharge Gage Height Date 26,700 E cfa 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967																						
4	162		Putah Creek above Davis	Monthly Mean Discharge March 41,047 cfs	1,324 cfs																						
4	171		Duck Creek near Stockton	Discharge Data	Table Revised - Published	Page 155 - 1968 Report																					
4	177		Bear Creek near Lodi	Maximum Discharge of Record Discharge Gage Height Date 670 cfs 3.35 1-30-1966	4,550 cfa 8.33 1-22-1967																						
4	264		Mokelumne River near Thornton	Datum of Gage	1964, -3.00 USCGS	1964, 0.00, USCGS																					
4	296		Sacramento River at Collinaville	Datum of Gage	<table border="1"> <thead> <tr> <th colspan="3">Datum of Gage</th> </tr> <tr> <th>Period</th> <th>Zero on</th> <th>Ref.</th> </tr> <tr> <th>From</th> <th>To</th> <th>Gage Datum</th> </tr> </thead> <tbody> <tr> <td>1929</td> <td>0.00</td> <td>USED</td> </tr> <tr> <td></td> <td>-3.05</td> <td>USCGS</td> </tr> <tr> <td>1964</td> <td>-3.54</td> <td>USCGS</td> </tr> <tr> <td>1964</td> <td>-3.00</td> <td>USCGS</td> </tr> </tbody> </table>		Datum of Gage			Period	Zero on	Ref.	From	To	Gage Datum	1929	0.00	USED		-3.05	USCGS	1964	-3.54	USCGS	1964	-3.00	USCGS
Datum of Gage																											
Period	Zero on	Ref.																									
From	To	Gage Datum																									
1929	0.00	USED																									
	-3.05	USCGS																									
1964	-3.54	USCGS																									
1964	-3.00	USCGS																									
4	296		Sacramento River at Collinsville	Daily Maximum and Minimum Tides	Notation: In order to machine process the data, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.																						

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
				<u>1967 (Cont.)</u>		
4	312		Suisun Bay at Benicia	Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
				<u>1968</u>		
4	54		Clover Creek Bypass near Upper Lake	Number Change	A89140	A81940
4	55, 61, 68		Grindstone Creek near Elk Creek	Number Change	A31300	A31302
4	94		Grindstone Creek near Elk Creek	Number Change	A31395	A31302
4	55, 63, 73		Kellogg Creek near Byron	Number Change	B95295	B89200
4	70		Fremont Weir Spill to Yolo Bypass	Map Plotting		To be located approximately midway between A02160 and A02170.
4	79		Willow Creek near Litchfield	Date of Discontinuance	9-30-68	9-30-67
4	87		Red Bank Creek near Red Bluff	Station Location	Station located at Red Bank Road Bridge, 11 miles southwest of Red Bluff.	Station located at Briggs Road Bridge, 11 miles southwest of Red Bluff.
4	142		Cache Creek above Rumsey	Maximum Discharge of Record	Discharge Gage Height Date 26,700 E cfs 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967
4	155, 156		Duck Creek near Stockton	Maximum Discharge of Record	Discharge Gage Height Date 400 cfs 5.75 12-24-1955	635 cfs 5.96 1-30-1967
4	161		Bear Creek near Lodi	Maximum Discharge of Record	Discharge Gage Height Date 670 cfs 3.35 1-30-1966	4,550 cfs 8.33 1-22-1967
4	198	11.0R	Hallwood Irrigation Company	Diversions	December January April May June July August September TOTAL	4,863 1,140 10,950 19,600 17,210 17,540 16,120 9,880 97,390
4	239		Sutter Bypass at Long Bridge	Station Location	Station located on west levee, 0.2 mile north of State Highway 20, 319 miles east of Meridian.	Station located on west levee, 0.2 mile north of State Highway 20, 3.9 miles east of Meridian.
4	247		Feather River near Gridley	Daily Mean Gage Height		<u>Notation:</u> In order to machine process the data, it was necessary to avoid gage heights above 99.99 feet. For values at reference datum, add 50 feet to gage height readings.
4	256		Sacramento River at Sacramento	Daily Mean Gage Height	February 28 February 29 20.74 20.74	20.90 20.92
				<u>1969</u>		
4	128		Cache Creek above Rumsey	Maximum Discharge of Record	Discharge Gage Height Date 26,700 E cfs 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967
4	136		French Camp Slough near French Camp	Total Acre-Foot Total Acre-Foot Mean Discharge	May Year Year 28,820 191,200 232 cfs	2,882 165,200 228 cfs
4	138		Duck Creek near Stockton	Maximum Discharge of Record	Discharge Gage Height Date 477 cfs 5.49 1-25-1969	635 cfs 5.96 1-30-1967
4	142		Bear Creek near Lodi	Maximum Discharge of Record	Discharge Gage Height Date 1,870 cfs 5.32 1-13-1969	4,550 cfs 8.33 1-22-1967

TABLE B-16 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
				<u>1969 (Cont.)</u>		
4	154		Bidwell Creek near Fort Bidwell	Daily Mean Discharge		
				May 10, 1969	163	145
				May 11, 1969	188	160
				May 12, 1969	247	184
				May 13, 1969	208	172
				May 14, 1969	175	157
				MONTHLY TOTAL	7,246 Acre-Feet	6,922 Acre-Feet
				WATER YEAR TOTAL	18,360 Acre-Feet	18,040 Acre-Feet
4	225		Feather River near Gridley	Daily Mean Gage Height		Notation: In order to machine process the data, it was necessary to avoid gage heights above 99.99 feet. For values at reference datum, add 50 feet to gage height readings.
				<u>1970</u>		
4	54		Little Chico Creek Diversion near Chico	Daily Mean Discharge	Data insufficient to compute discharge.	4.0 cfs
				Dec. 19, 1969		0.5
				Jan. 9, 1970		4.9
				Jan. 13, 1970		
				Jan. 14, 1970		543
				Jan. 16, 1970		10
				Jan. 21, 1970		43
				Jan. 23, 1970		131
				Jan. 24, 1970		104
				Jan. 27, 1970		1.6
				WATER YEAR TOTAL		1,670 Acre-Feet
4	67		Burney Creek near Burney	Daily Mean Discharge		
				June 18, 1970	25	24
				June 19, 1970	23	21
				June 20, 1970	21	17
				June 21, 1970	28	23
				June 22, 1970	28	21
				June 23, 1970	25	17
				June 24, 1970	20	11
				June 25, 1970	29	17
				June 26, 1970	32	19
				June 27, 1970	35	20
				June 28, 1970	45	36
				June 29, 1970	7.0	37
				June 30, 1970	3.7	23
				MONTHLY TOTAL	1,388 Acre-Feet	1,317 Acre-Feet
				July 1, 1970	3.7	21
				July 2, 1970	3.7	18
				July 3, 1970	3.7	17
				July 4, 1970	3.7	15
				July 5, 1970	3.7	12
				July 6, 1970	3.7	12
				July 7, 1970	3.7	12
				July 8, 1970	3.7	17
				July 9, 1970	3.7	18
				July 10, 1970	3.7	17
				July 11, 1970	3.7	14
				July 12, 1970	3.7	13
				July 13, 1970	3.7	13
				July 14, 1970	3.8	12
				July 15, 1970	3.8	12
				July 16, 1970	6.5	15
				July 17, 1970	11	19
				July 18, 1970	12	19
				July 19, 1970	15	20
				July 20, 1970	18	22
				July 21, 1970	15	17
				July 22, 1970	13	14
				MONTHLY TOTAL	522 Acre-Feet	923 Acre-Feet
				WATER YEAR TOTAL	93,107 Acre-Feet	93,438 Acre-Feet
4	130		Duck Creek near Stockton	Maximum Discharge of Record	Discharge Gage Height Date	635 cfa 5.96 1/25/1969
					477 cfa 5.49 1/25/1969	
4	134		Bear Creek near Lodi	Maximum Discharge of Record	Discharge Gage Height Date	4,550 cfa 8.33 1/22/1967
					3,300 cfa 7.11 1/14/1970	
4	137		Dry Creek near Ione	Monthly Total December	Mean Maximum Minimum Acre-Feet	39.2 219 3.9 2,408
				Yearly Mean	cfa	45.5
				Yearly Total	Acre-Feet	32,940
				46.1	30,531	
4	148		Bidwell Creek near Fort Bidwell	Daily Mean Discharge		
				Jan. 22, 1970	196	136
				Jan. 23, 1970	172	124
				Jan. 24, 1970	168	124
				MONTHLY TOTAL	2,050 Acre-Feet	1,749 Acre-Feet
				WATER YEAR TOTAL	16,521 Acre-Feet	16,220 Acre-Feet

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
4	208		Feather River near Gridley	<p><u>1970 (Cont.)</u> Daily Mean Gage Height</p>		<p>Notation: In order to machine process the data, it was necessary to avoid gage heights above 99.99 feet. For values at reference datum, add 50 feet to gage height readings.</p>
4	55		Little Chico Creek Diversion near Chico	<p><u>1971</u> Daily Mean Discharge Dec. 3, 1970 Dec. 4, 1970 Mar. 26, 1971 WATER YEAR TOTAL</p>	Data insufficient to compute discharge.	<p>0.1 cfs 66 3.0 137 Acre-Feet</p>
4	59		Little Chico Creek Diversion near Chico	<p><u>1972</u> Daily Mean Discharge</p>	Data insufficient to compute discharge.	No Flow

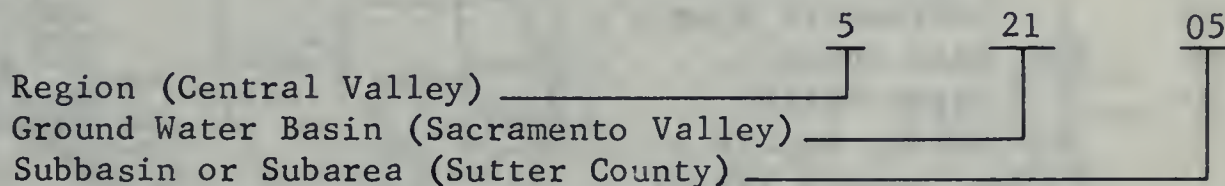
GROUND WATER MEASUREMENTS

This appendix contains summary and selected information concerning the level of ground water in wells within 37 ground water basins or areas in Northeastern California. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

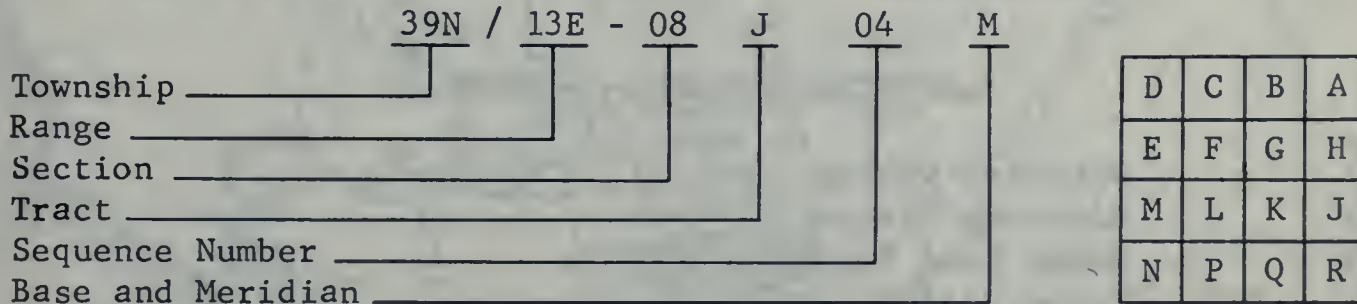
Earlier editions of this report contained a tabulation of individual measurements of ground water levels at wells. This type of data collected by the Department will be available at the various district offices of the Department. Please see the introduction at the front of this volume for the addresses of these district offices.

Table C-1 shows the average change in ground water levels for the various basins in Northeastern California from spring 1972 to spring 1973. This table also shows the number of well measurements collected in the various areas. Figure C-2 contains graphical presentations of the average levels of ground water in the spring for the past several years. Figure C-3 is a graphical representation of the fluctuation of ground water level in certain selected wells for the past several years. An attempt has been made to select wells that represent conditions in the basin where the well is located. However, some caution in the use of these data is in order because ground water conditions can vary markedly with relatively small changes in horizontal location.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System. The regions used in Bulletin No. 130 are geographic areas defined in Section 13200 of the Water Code. This volume comprises the northern portions of Central Valley Region No. 5 and Lahontan Region No. 6. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



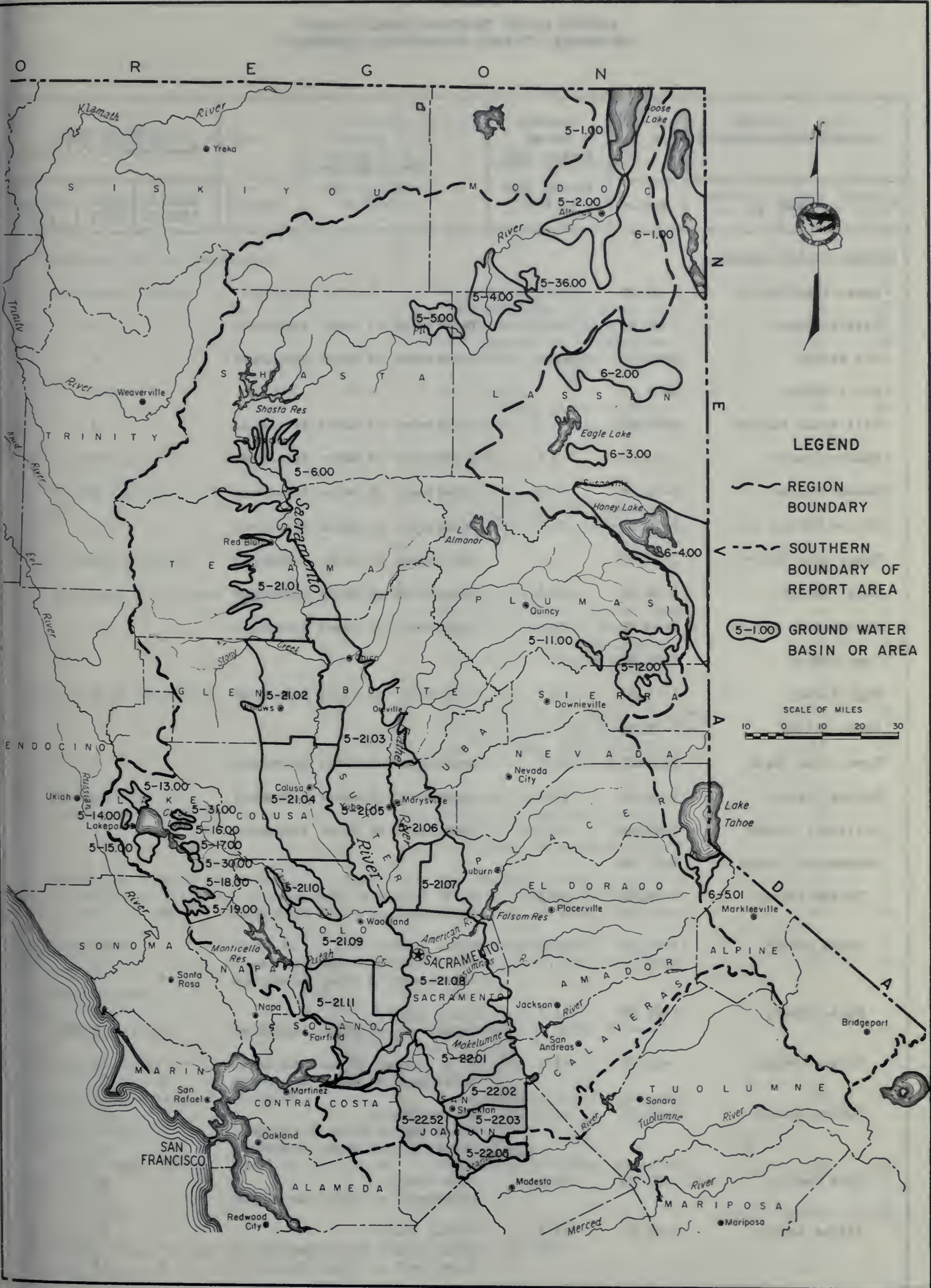
The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below on the left.



This number identifies and locates the well. In the example, the well is in Township 39 North, Range 13 East, Tract J of Section 8, referenced to the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as shown above on the right. Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

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IN NORTHEASTERN CALIFORNIA

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5-02.00	Alturas Basin	242
5-04.00	Big Valley	242
5-36.00	Round Valley	
5-05.00	Fall River Valley	242
5-06.00	Redding Basin	242, 247
5-11.00	Mohawk Valley	242
5-12.00	Sierra Valley	242
5-13.00	Upper Lake Valley	
5-14.00	Scott Valley	242
5-15.00	Kelseyville Valley	242
5-31.00	Long Valley	
5-16.00	High Valley	242
5-17.00	Burns Valley	
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5-21.06	Yuba County	242, 245, 249
5-21.07	Placer County	242, 245, 249
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5-21.09	Yolo County	243, 245, 250
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6-01.00	Surprise Valley	243
6-02.00	Madeline Plains	
6-04.00	Honey Lake Valley	243
6-05.00	Tahoe Valley	
6-05.01	South Tahoe Valley	243



GROUND WATER BASINS IN NORTHEASTERN CALIFORNIA

TABLE C-1

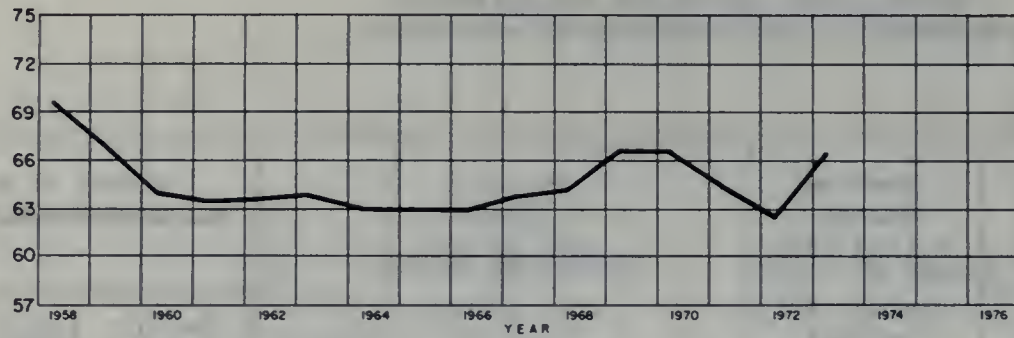
AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1972 to Spring 1973 in feet	Measuring Agency	Number of Well Measurements Collected		
Name	Number			Monthly 1972-73	Fall 1972	Spring 1973
CENTRAL VALLEY REGION						
Goose Lake Valley	5-01.00					
Alturas Basin	5-02.00	-0.4	Department of Water Resources	6	6	
Big Valley	5-04.00	-0.4	Department of Water Resources	4	4	
Round Valley	5-36.00					
Fall River Valley	5-05.00	-0.7	Department of Water Resources	3	3	
Redding Basin	5-06.00	+0.2	Department of Water Resources	10	10	
Mohawk Valley	5-11.00	+0.1	Department of Water Resources	1	2	
Sierra Valley	5-12.00	-0.7	Department of Water Resources	39	40	
Upper Lake Valley	5-13.00	0.0	Department of Water Resources	5	5	
Scott Valley	5-14.00	-2.8	Department of Water Resources	1	1	
Kelseyville Valley	5-15.00	+3.0	Department of Water Resources	11	11	
Long Valley	5-31.00					
High Valley	5-16.00	+2.2	Department of Water Resources	2	2	
Burns Valley	5-17.00					
Lower Lake Area	5-30.00	+4.0	Department of Water Resources	1	1	
Coyote Valley	5-18.00	+0.3	Department of Water Resources	1	1	
Collayomi Valley	5-19.00	+0.3	Department of Water Resources	2	2	
Sacramento Valley	5-21.00					
Tehama County	5-21.01	+5.3	U. S. Bureau of Reclamation Department of Water Resources	5 14	5 61	
Glenn County	5-21.02	+6.9	Glenn County U. S. Bureau of Reclamation Department of Water Resources	114 25 13	113 25	
Butte County	5-21.03	+1.7	Butte County Department of Water Resources	124 15	124	
Colusa County	5-21.04	+5.5	U. S. Bureau of Reclamation Department of Water Resources	33 8	33 37	
Sutter County	5-21.05	+4.5	Sutter County South Sutter Water District Department of Water Resources	107 25 10	107 25 11	
Yuba County	5-21.06	+4.1	Yuba County Department of Water Resources	69 1	69 25	
Placer County	5-21.07	+1.6	Placer County South Sutter Water District Department of Water Resources	74 2 7	74 2 15	

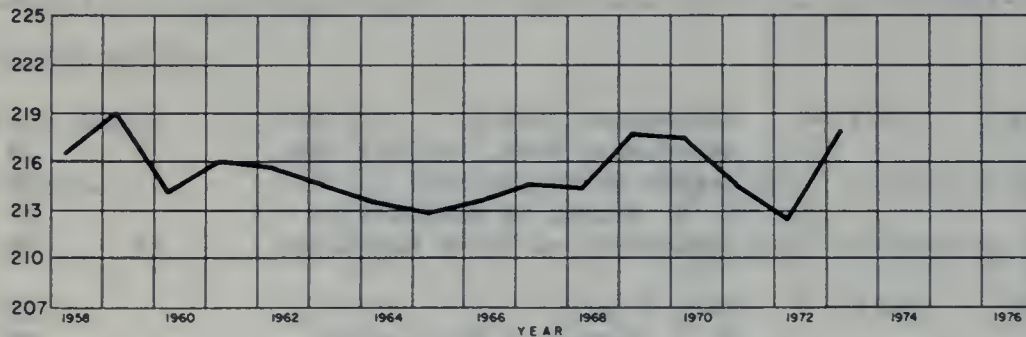
TABLE C-1 (Continued)
 AVERAGE CHANGE OF GROUND WATER LEVELS
 AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1972 to Spring 1973 in Feet	Measuring Agency	Number of Well Measurements Collected			
Name	Number			Monthly 1972-73	Fall 1972	Spring 1973	
Sacramento Valley (Continued)							
Sacramento County	5-21.08	-0.2	Sacramento County		95	92	
			Sacramento Muni. Utility Dist.		19	19	
			Arcade Water District		26	39	
			U. S. Bureau of Reclamation		91	89	
			Department of Water Resources	17	66	87	
Yolo County	5-21.09	+4.8	Yolo County		163	155	
			U. S. Bureau of Reclamation		80	81	
			Department of Water Resources	12	27	53	
Capay Valley	5-21.10	+5.0	Yolo County		21	21	
Solano County	5-21.11	+4.5	Solano County		26	25	
			U. S. Bureau of Reclamation		97	97	
			Department of Water Resources	13	21	21	
San Joaquin Valley							
Mokelumne River Area	5-22.01	+0.1	San Joaquin County		82	81	
			California Water Service Company		4	4	
			East Bay Municipal Utility Dist.	1	63	61	
			U. S. Bureau of Reclamation		4	4	
			Department of Water Resources	1	34	48	
Calaveras River Area	5-22.02	-1.9	San Joaquin County		75	77	
			California Water Service Company		19	18	
			East Bay Municipal Utility Dist.		3	3	
			Stockton-East Water District		37	37	
			Department of Water Resources	3	33	35	
Farmington- Collegeville Area	5-22.03	-2.3	San Joaquin County		57	57	
			Oakdale Irrigation District		2	2	
			Stockton-East Water District		1	1	
			Department of Water Resources	1	23	25	
South San Joaquin Irrigation District	5-22.05	+0.3	San Joaquin County		4	4	
			Oakdale Irrigation District		1	1	
			Department of Water Resources		40	41	
Delta Area	5-22.52	+4.8	San Joaquin County		5	5	
			Department of Water Resources	1	18	19	
LAHONTAN REGION							
Surprise Valley	6-01.00	-3.3	Department of Water Resources		13	13	
Madeline Plains	6-02.00						
Honey Lake Valley	6-04.00		Department of Water Resources		11	10	
Tahoe Valley	6-05.00						
South Tahoe Valley	6-05.01	-0.7*	Department of Water Resources		21	21	
TOTAL					107	2,050	2,120

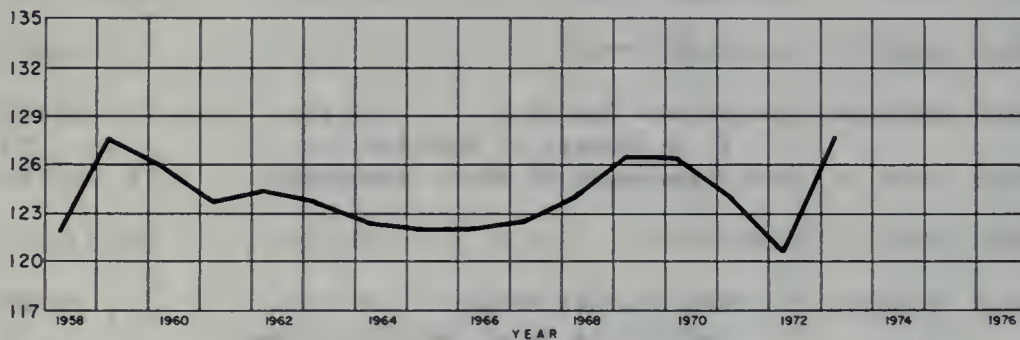
* Average change determined from spring of 1971 to spring of 1973.



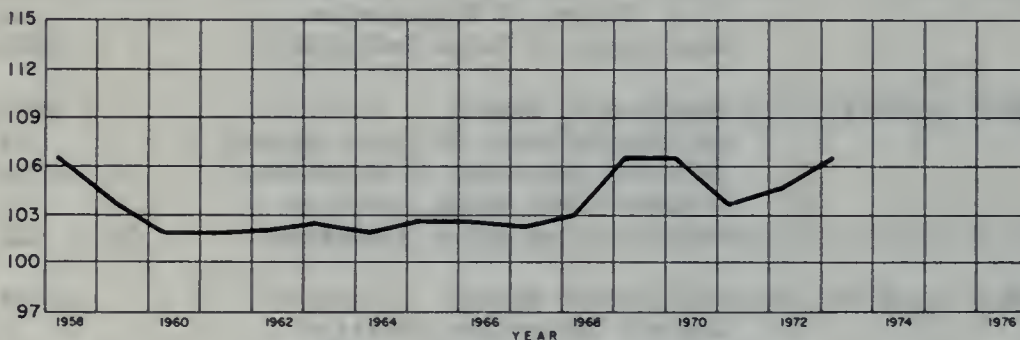
SACRAMENTO VALLEY AREA
5 - 21.00
AVERAGE GROUND SURFACE
ELEVATION 96'



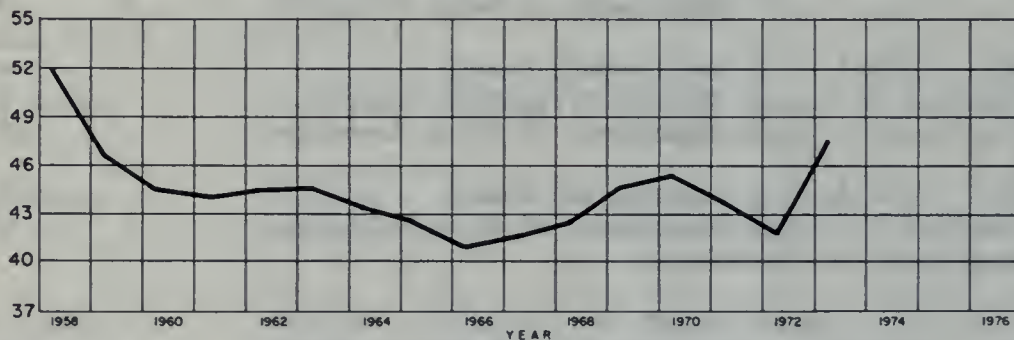
TEHAMA COUNTY AREA
5 - 21.01
AVERAGE GROUND SURFACE
ELEVATION 248'



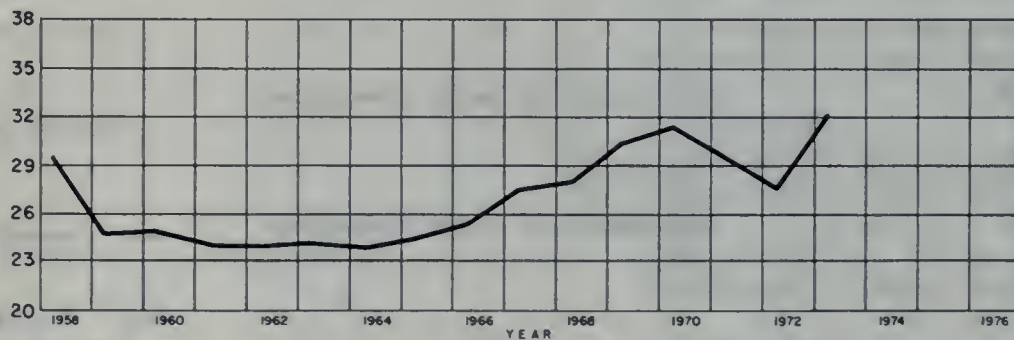
GLENN COUNTY AREA
5 - 21.02
AVERAGE GROUND SURFACE
ELEVATION 140'



BUTTE COUNTY AREA
5 - 21.03
AVERAGE GROUND SURFACE
ELEVATION 126'

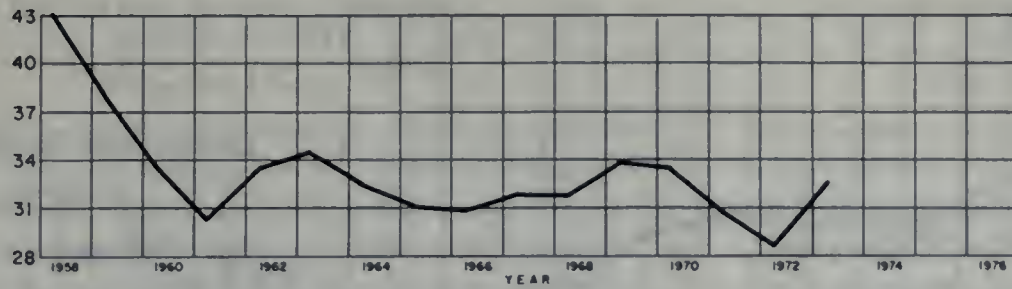


COLUSA COUNTY AREA
5 - 21.04
AVERAGE GROUND SURFACE
ELEVATION 75'

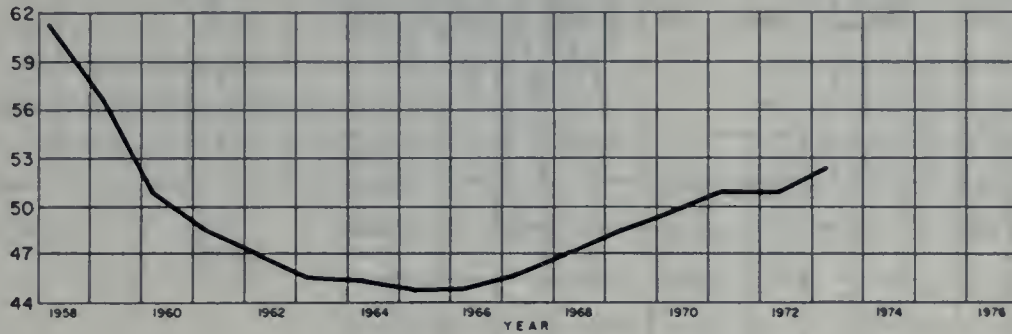


SUTTER COUNTY AREA
5 - 21.05
AVERAGE GROUND SURFACE
ELEVATION 42'

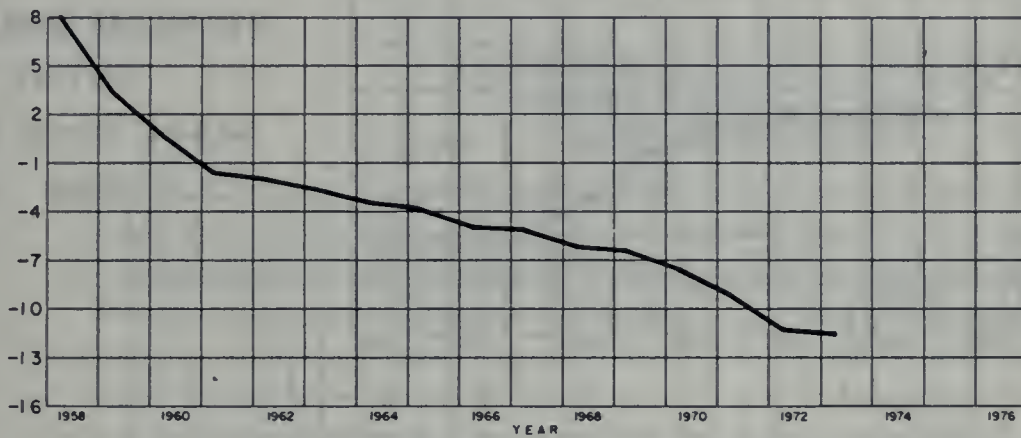
FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS



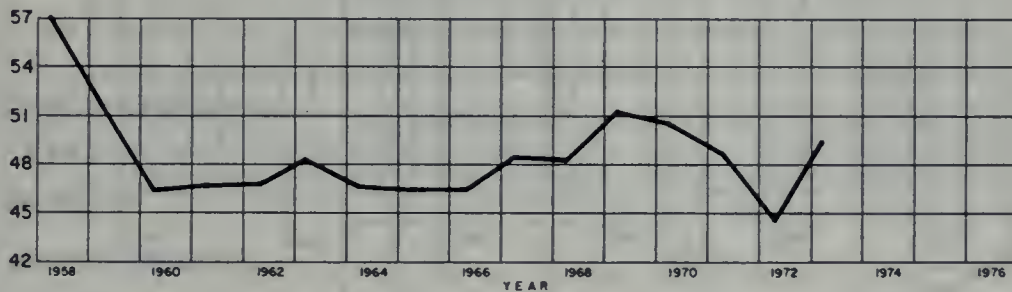
YUBA COUNTY AREA
5-21.06
AVERAGE GROUND SURFACE
ELEVATION 70'



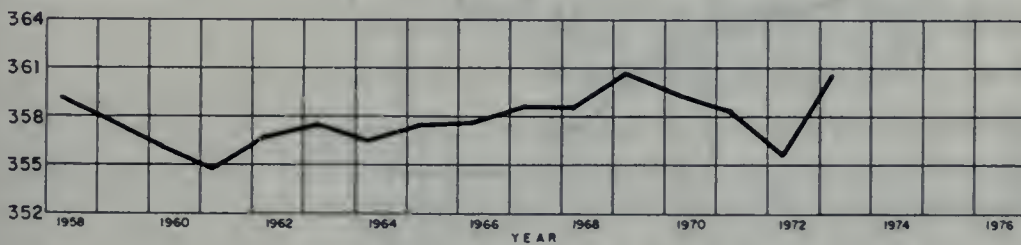
PLACER COUNTY AREA
5-21.07
AVERAGE GROUND SURFACE
ELEVATION 100'



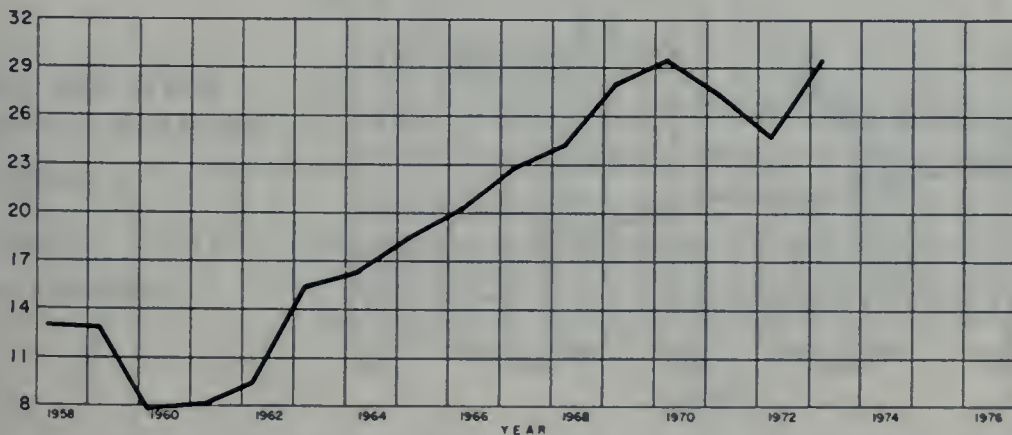
SACRAMENTO COUNTY AREA
5-21.08
AVERAGE GROUND SURFACE
ELEVATION 52'



YOLO COUNTY AREA
5-21.09
AVERAGE GROUND SURFACE
ELEVATION 79'



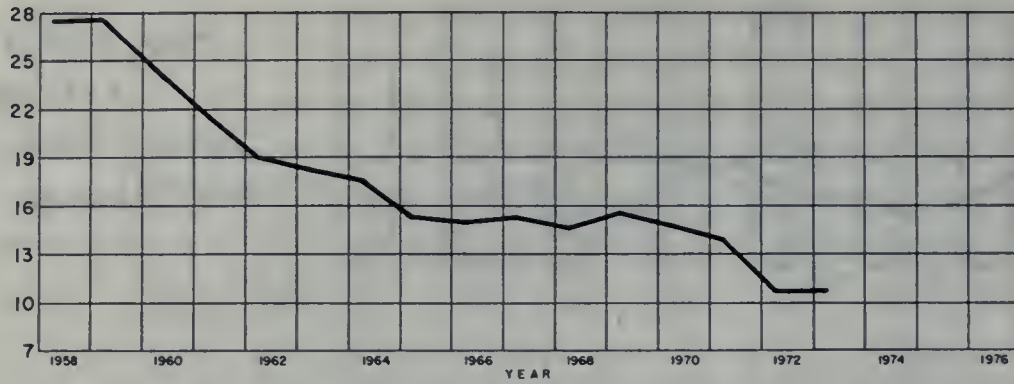
CAPAY VALLEY AREA
5-21.10
AVERAGE GROUND SURFACE
ELEVATION 380'



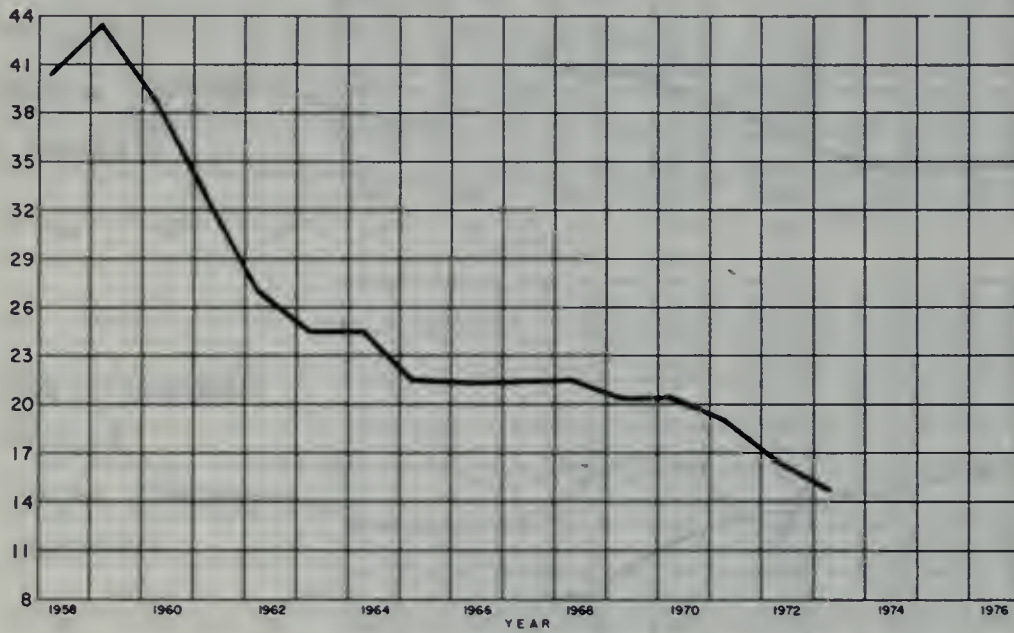
SOLANO COUNTY AREA
5-21.11
AVERAGE GROUND SURFACE
ELEVATION 55'

FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

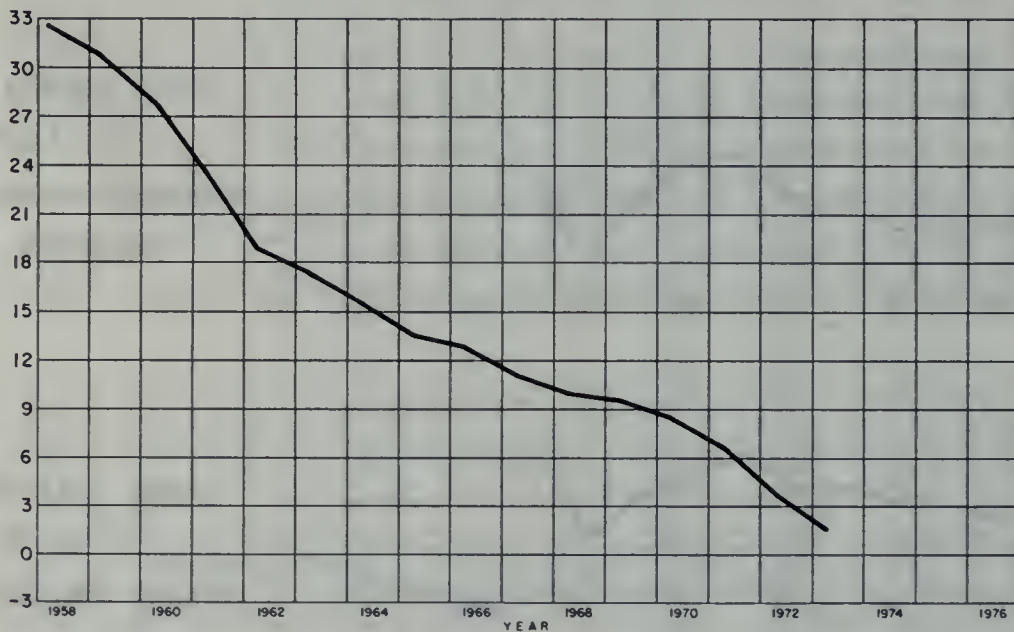
ELEVATION IN FEET - U. S. C. & G. S. DATUM



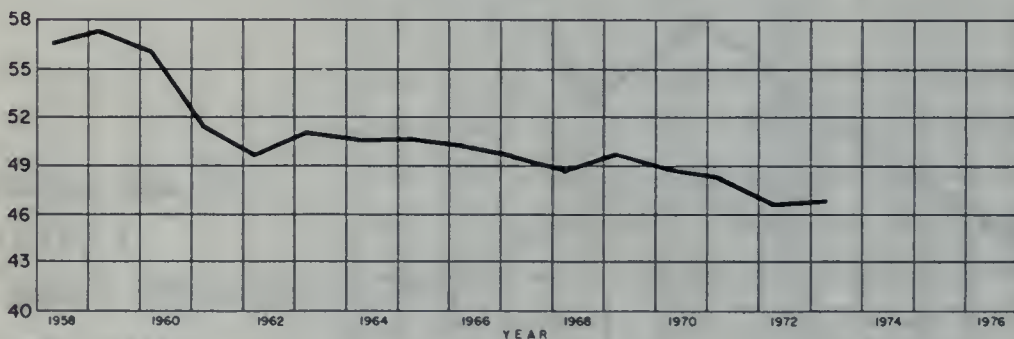
MOKELUMNE RIVER AREA
5-22.01
AVERAGE GROUND SURFACE
ELEVATION 73'



CALAVERAS RIVER AREA
5-22.02
AVERAGE GROUND SURFACE
ELEVATION 97'



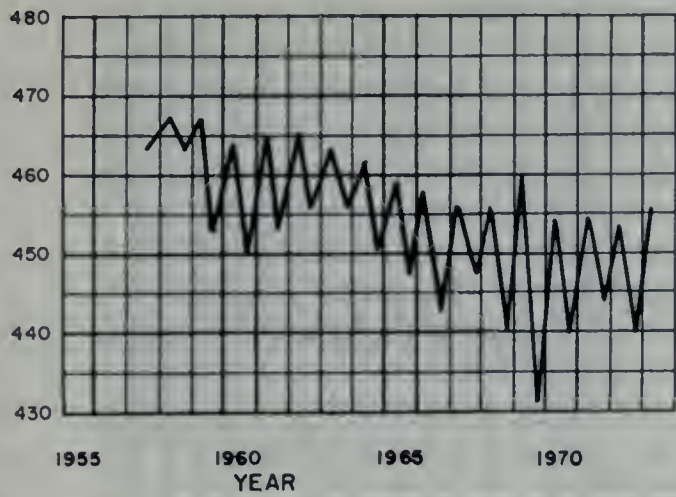
FARMINGTON - COLLEGEVILLE
AREA
5-22.03
AVERAGE GROUND SURFACE
ELEVATION 78'



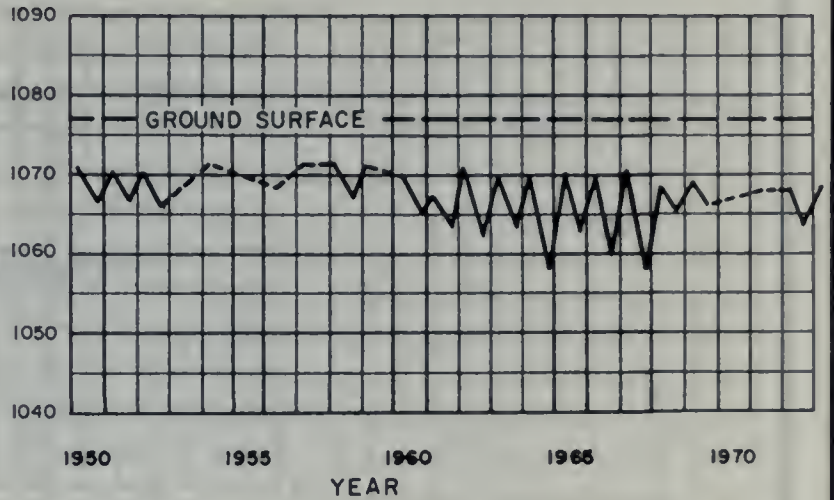
SOUTH SAN JOAQUIN
IRRIGATION DISTRICT AREA
5-22.05
AVERAGE GROUND SURFACE
ELEVATION 69'

FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

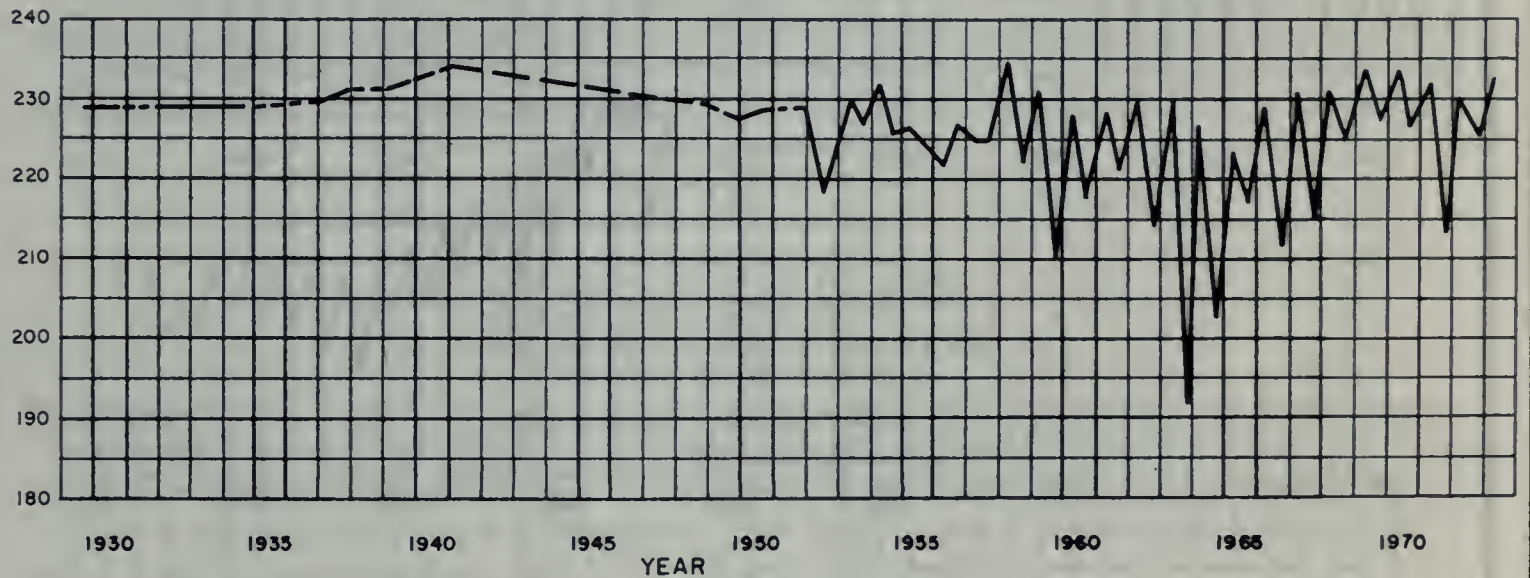
REDDING BASIN (5-6.00)
SHASTA COUNTY
WELL 29N/5W - 11A2, M.D.B. & M.
GROUND SURFACE ELEVATION 512'



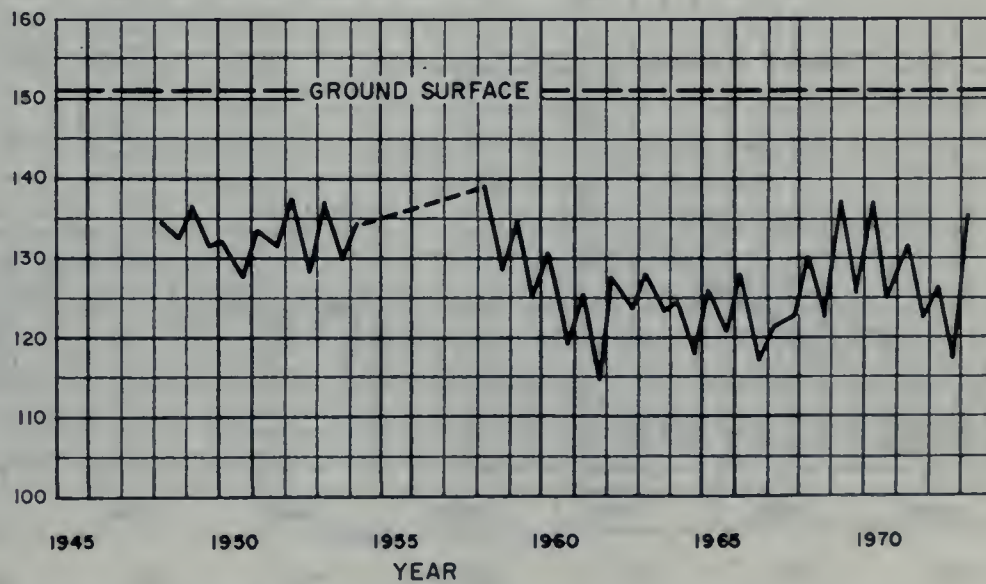
COLLAYOMI VALLEY (5-19.00)
LAKE COUNTY
WELL 11N/7W - 35E1, M.D.B. & M.
GROUND SURFACE ELEVATION 1077'



SACRAMENTO VALLEY (5-21.00)
TEHAMA COUNTY (5-21.01)
WELL 26N/3W - 4K1, M.D.B. & M.
GROUND SURFACE ELEVATION 295'



SACRAMENTO VALLEY (5-21.00)
GLENN COUNTY (5-21.02)
WELL 21N/2W - 28M1, M.D.B. & M.
GROUND SURFACE ELEVATION 151'



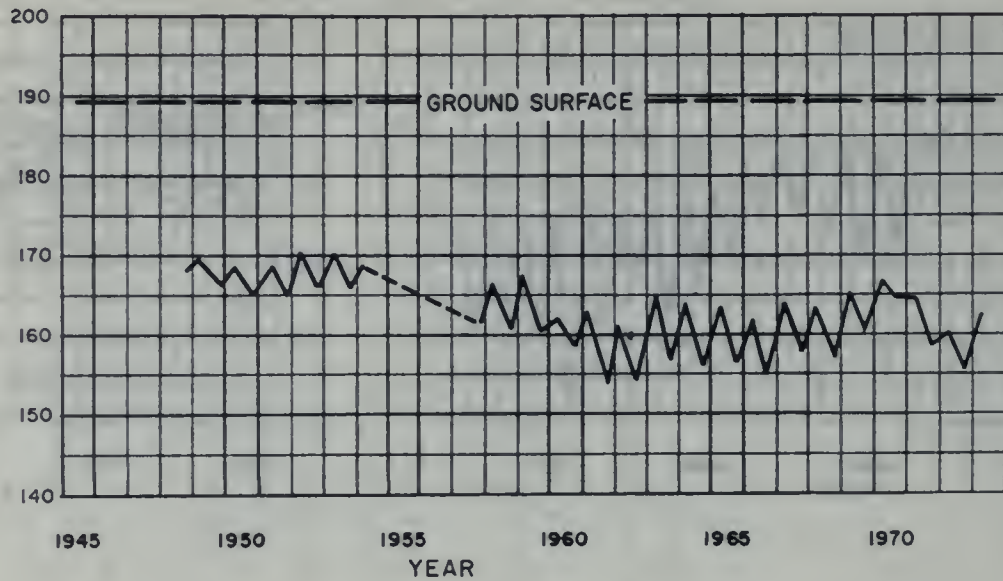
-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

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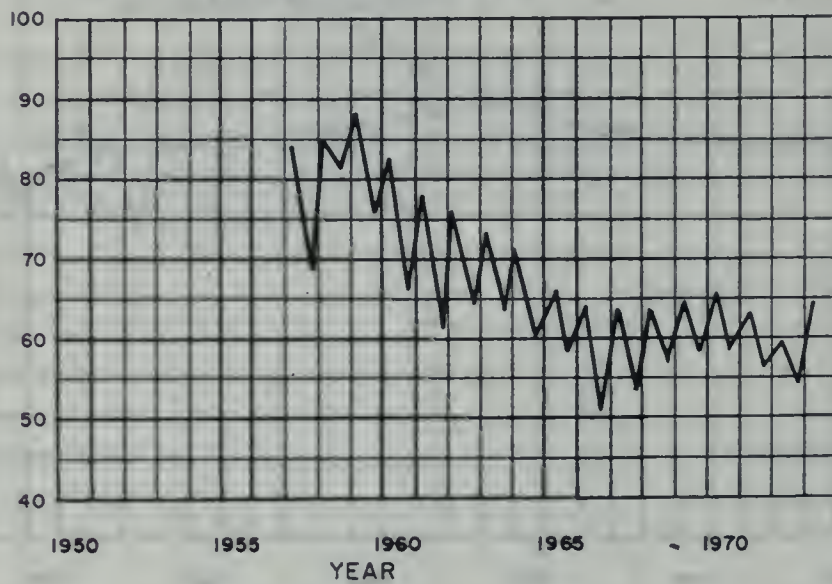
FLUCTUATION OF WATER LEVEL IN WELLS

E L E V A T I O N I N F E E T - U S C & G S D A T U M

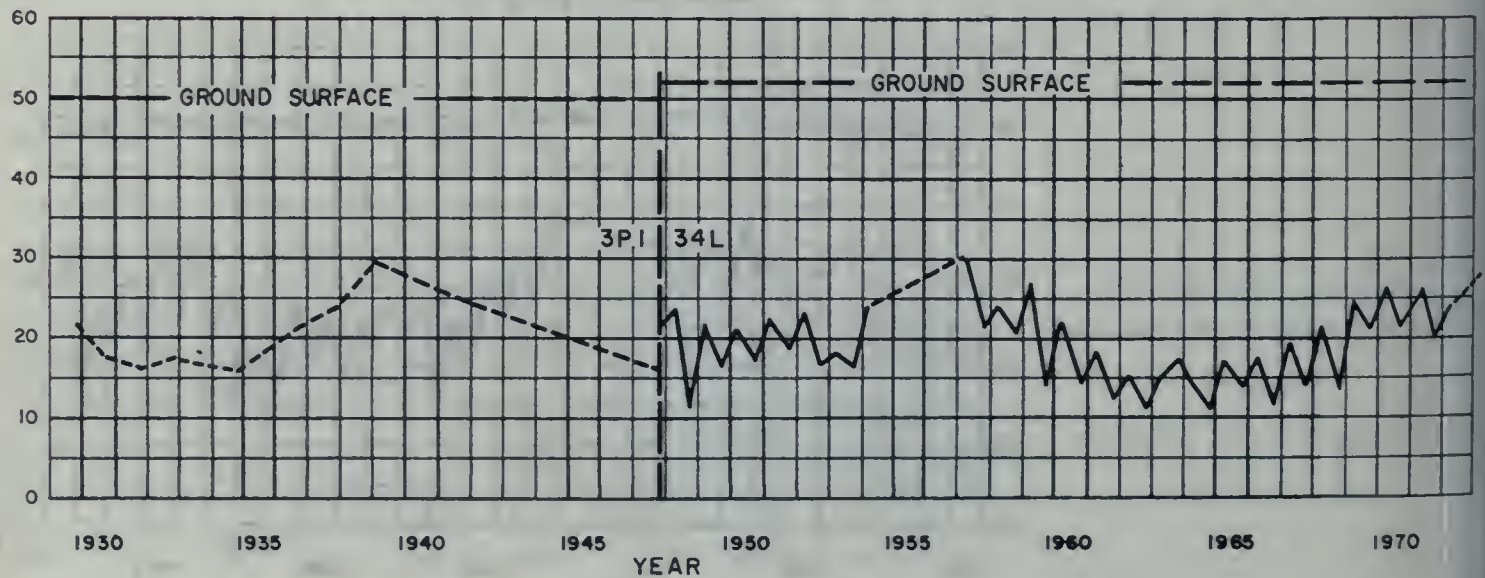
SACRAMENTO VALLEY (5-21.00)
 BUTTE COUNTY (5-21.03)
 WELL 23N/1W-14R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 189'



SACRAMENTO VALLEY (5-21.00)
 COLUSA COUNTY (5-21.04)
 WELL 14N/2W-16N2, M.D.B. & M.
 GROUND SURFACE ELEVATION 118'



SACRAMENTO VALLEY (5-21.00)
 SUTTER COUNTY (5-21.05)
 WELLS 14N/3E-3PI, 15N/3E-34LI, M.D.B. & M.
 GROUND SURFACE ELEVATION 50', 52'

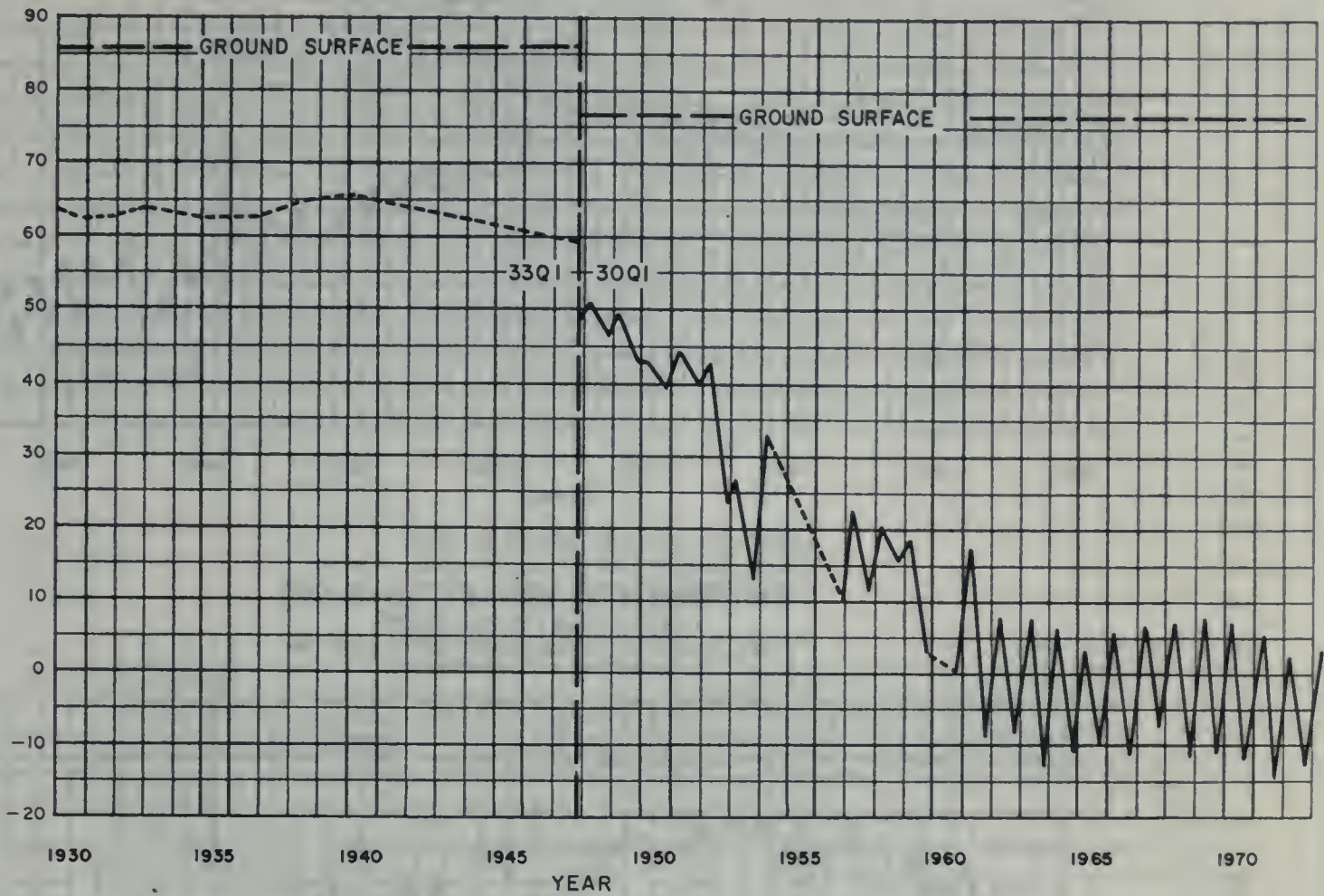


-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

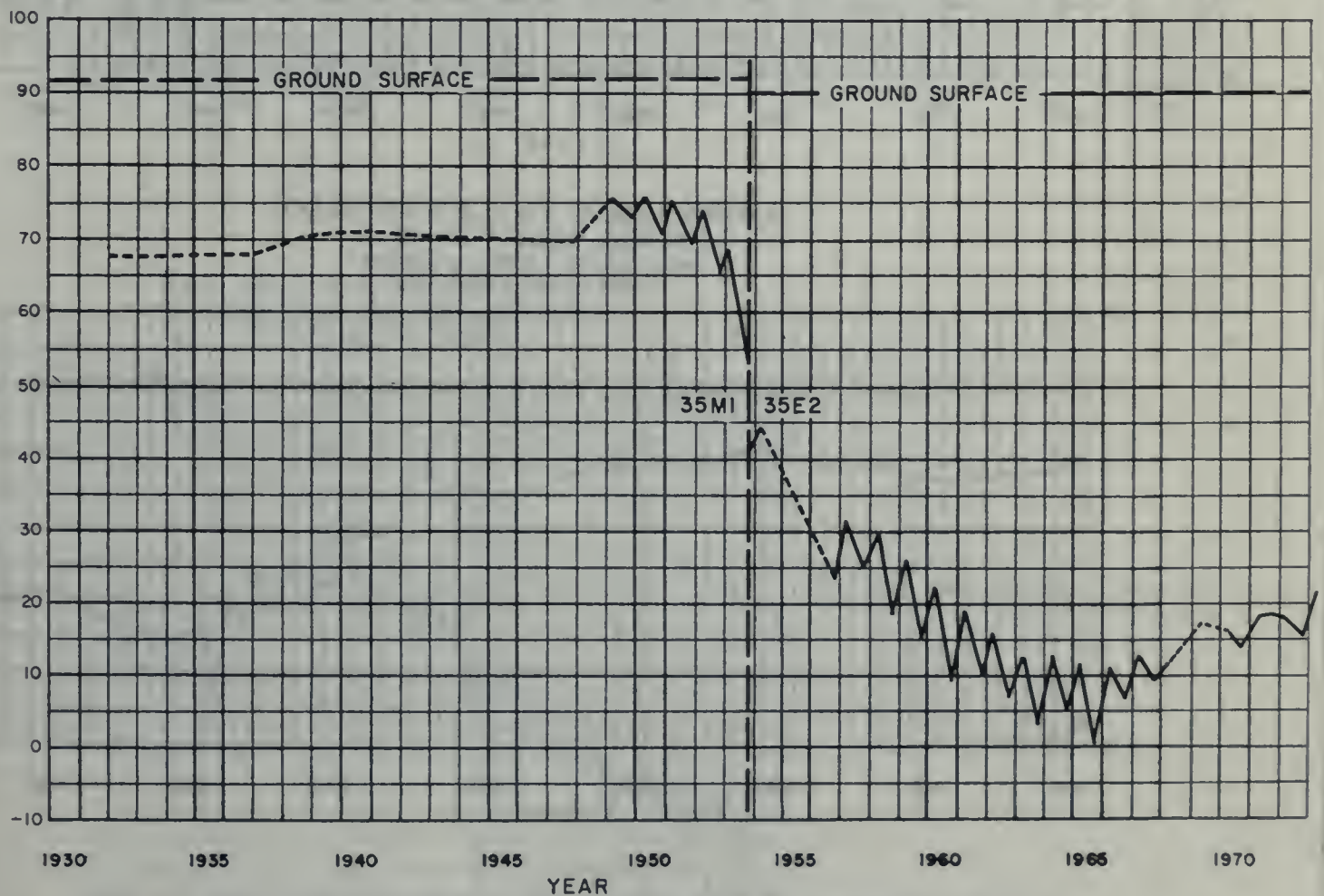
FLUCTUATION OF WATER LEVEL IN WELLS

SACRAMENTO VALLEY (5-21.00)
 YUBA COUNTY (5-21.06)
 WELLS 14N/5E-33Q1, 14N/5E-30Q1, M.D.B. & M.
 GROUND SURFACE ELEVATION 86', 77'

ELEVATION IN FEET - U.S.C. & G.S. DATUM



SACRAMENTO VALLEY (5-21.00)
 PLACER COUNTY (5-21.07)
 WELLS 13N/5E-35M1, 12N/5E-35E2, M.D.B. & M.
 GROUND SURFACE ELEVATION 92', 90'

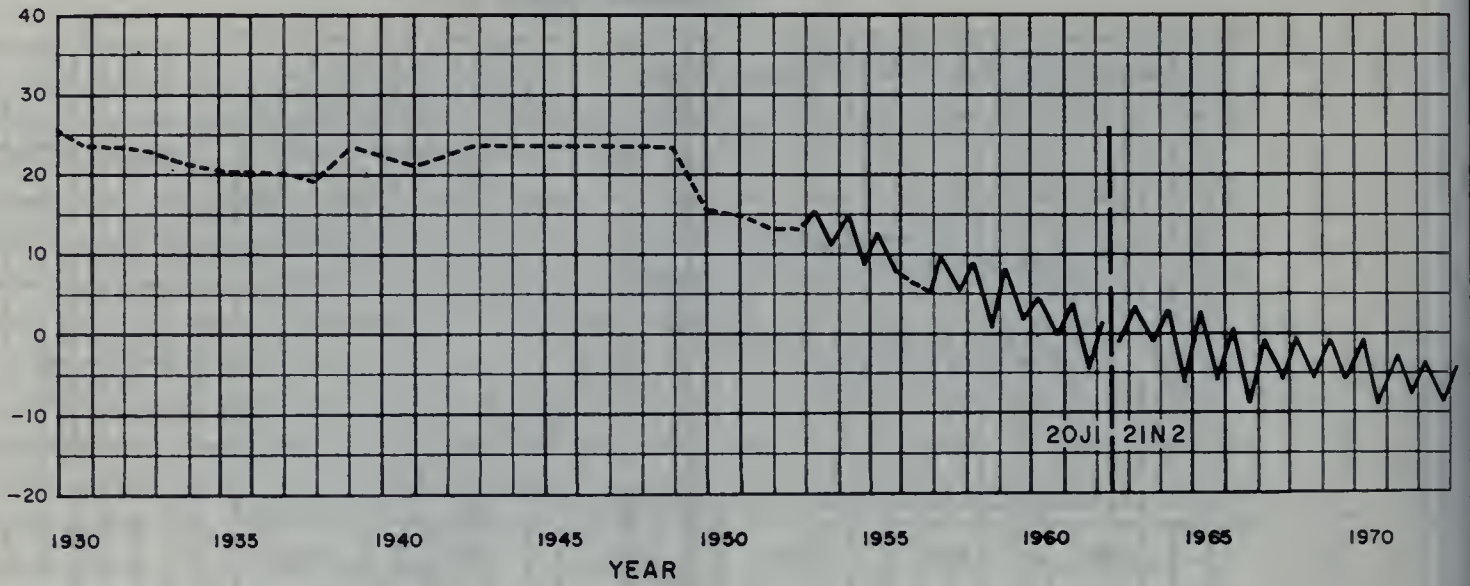


-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

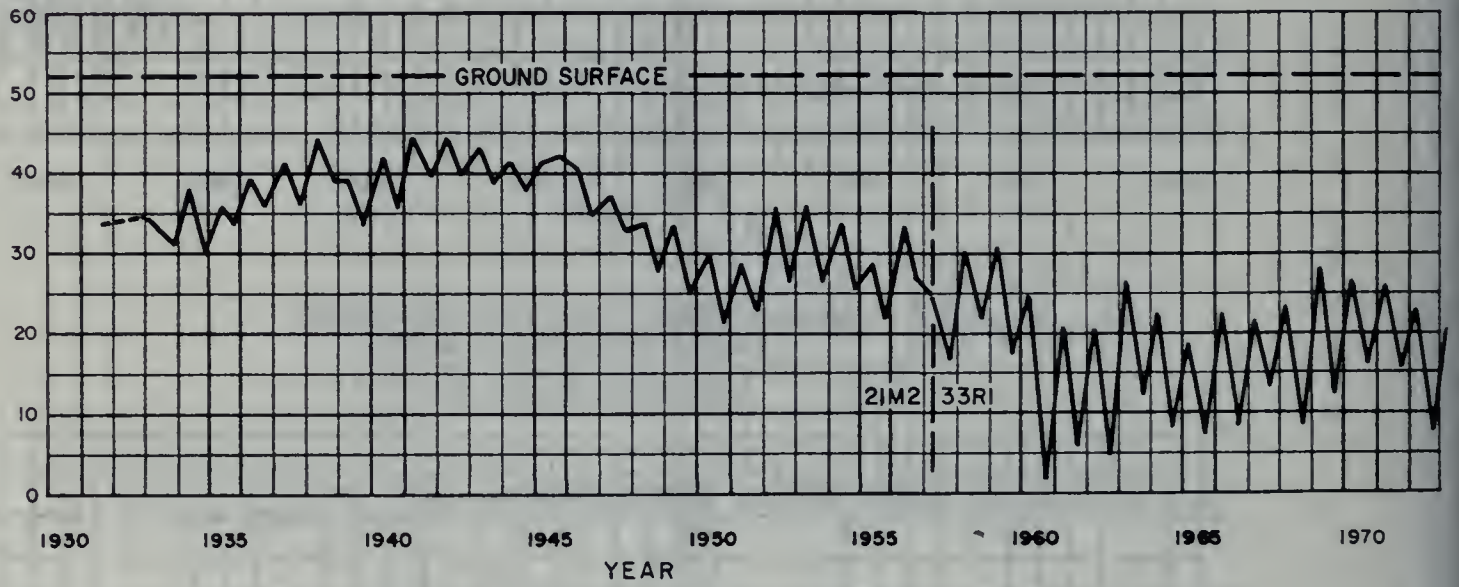
FLUCTUATION OF WATER LEVEL IN WELLS

E L E V A T I O N I N F E E T - U S C & G S D A T U M

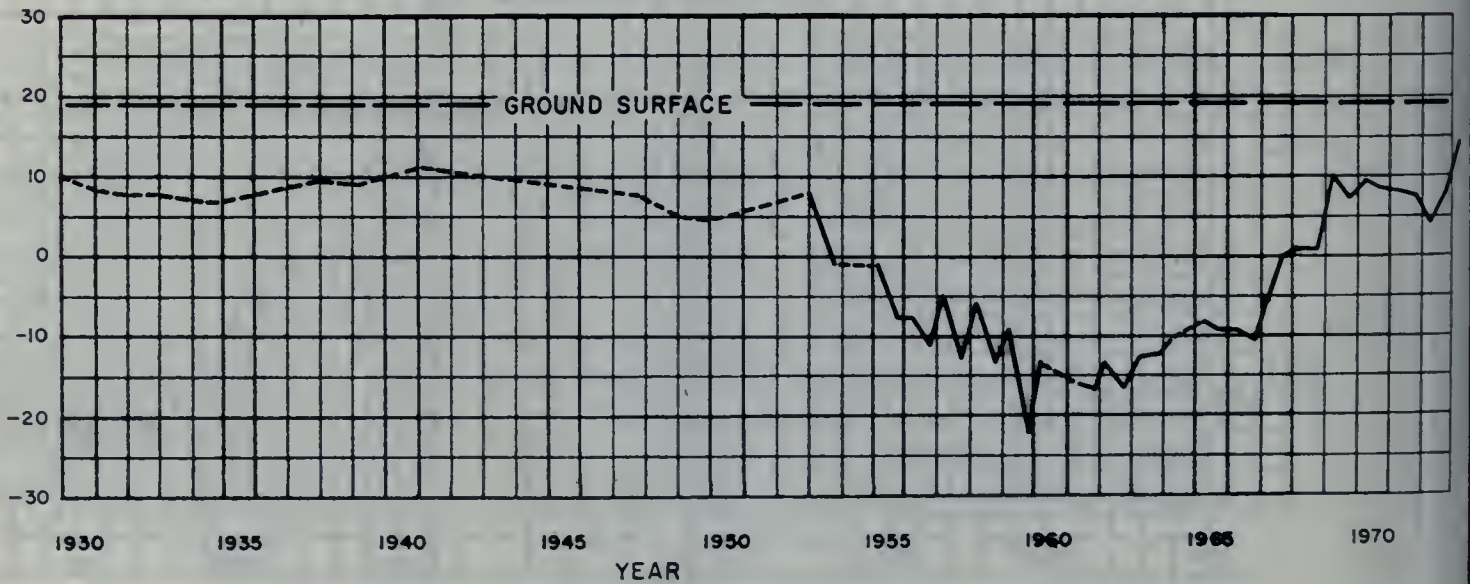
SACRAMENTO VALLEY (5-21.00)
SACRAMENTO COUNTY (5-21.08)
 WELLS 8N/6E-20J1, 8N/6E-21N2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64', 65'



SACRAMENTO VALLEY (5-21.00)
YOLO COUNTY (5-21.09)
 WELLS 10N/2E-21M2, 10N/2E-33R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 52'



SACRAMENTO VALLEY (5-21.00)
SOLANO COUNTY (5-21.11)
 WELL 6N/2E-29N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 19'

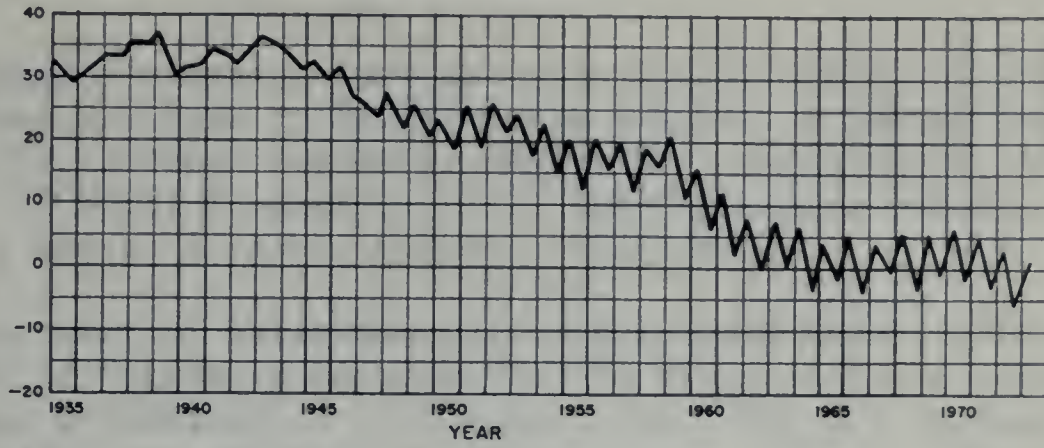


-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

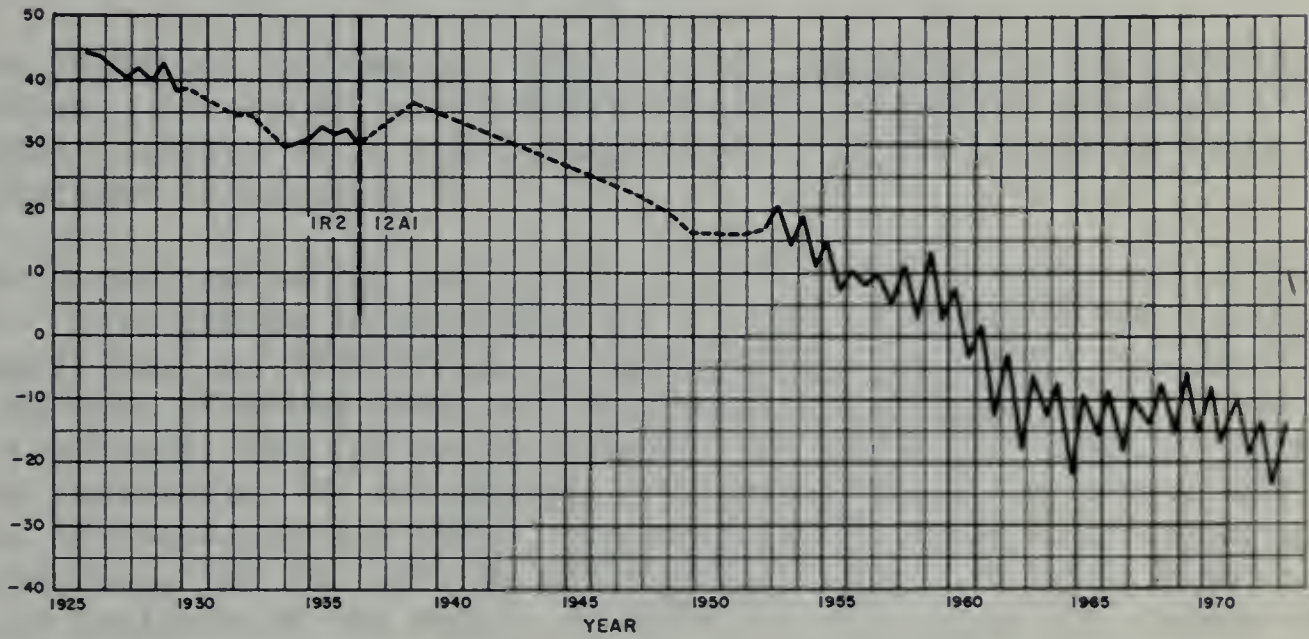
FLUCTUATION OF WATER LEVEL IN WELLS

ELEVATION IN FEET - U.S.C. & G.S. DATUM

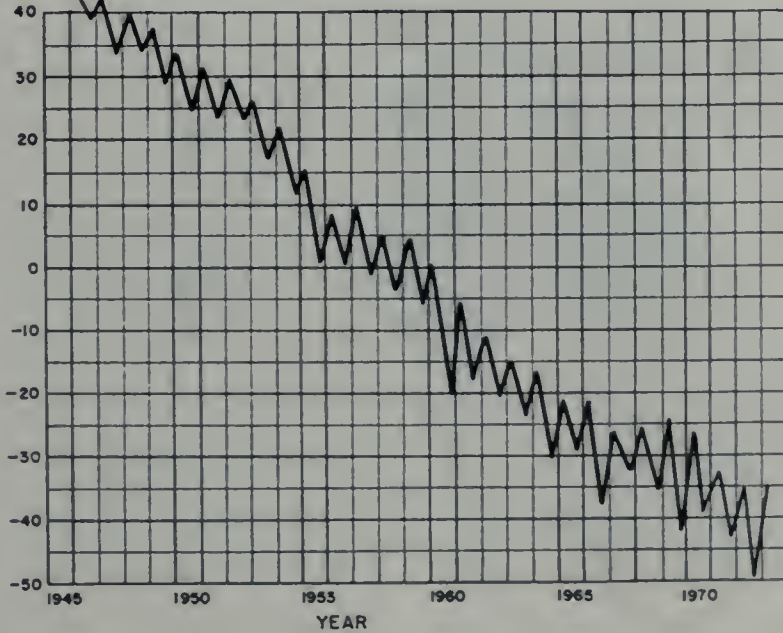
SAN JOAQUIN VALLEY (5-22.00)
 MOKELUMNE RIVER AREA (5-22.01)
 WELL 3N/7E-10L4, M.D.B. & M.
 GROUND SURFACE ELEVATION 73'



SAN JOAQUIN VALLEY (5-22.00)
 CALAVERAS RIVER AREA (5-22.02)
 WELLS 2N/7E-1R2, 2N/7E-12A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 74.72'



SAN JOAQUIN VALLEY (5-22.00)
 FARMINGTON-COLLEGEVILLE AREA (5-22.03)
 WELL 1N/8E-17D1, M.D.B. & M.
 GROUND SURFACE ELEVATION 69'



----- CONNECTS MEASUREMENTS
 MADE AT INTERVALS OF A
 YEAR OR MORE.

FLUCTUATION OF WATER LEVEL IN WELLS

APPENDIX D

SURFACE WATER QUALITY DATA

This appendix contains surface water quality data collected at 206 stream and estuarine stations in Northeastern California during the period from October 1, 1972, through September 30, 1973. Samples were collected by the Department of Water Resources, U. S. Bureau of Reclamation, U. S. Geological Survey, and U. S. Army, Corps of Engineers.

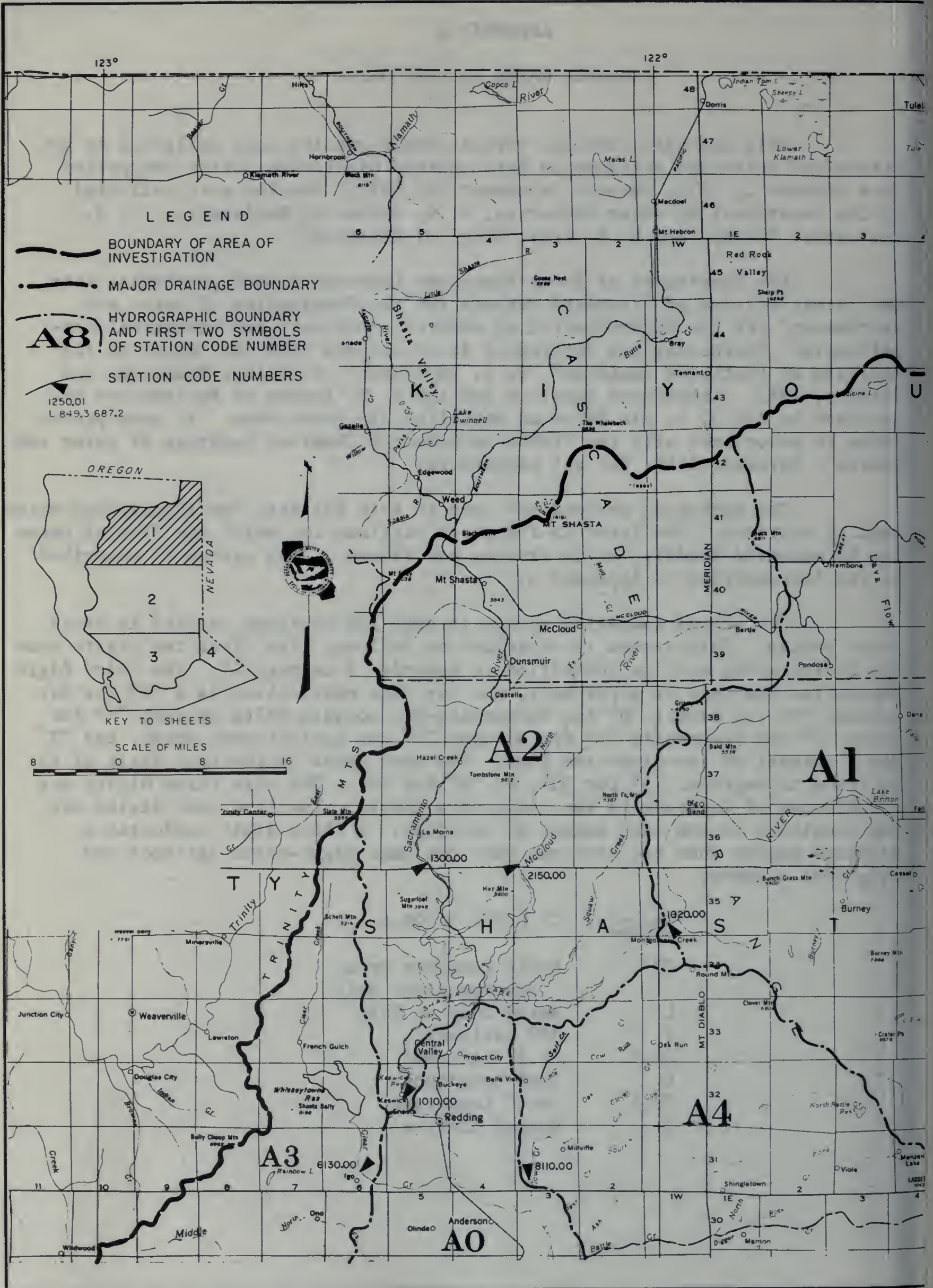
The Department of Water Resources Laboratory used procedures from the latest edition of "Standard Methods for the Examination of Water and Wastewater" for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965. Laboratory services for the U. S. Bureau of Reclamation are provided by the U. S. Air Force at McClellan Air Force Base. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in the introduction to Appendix B.

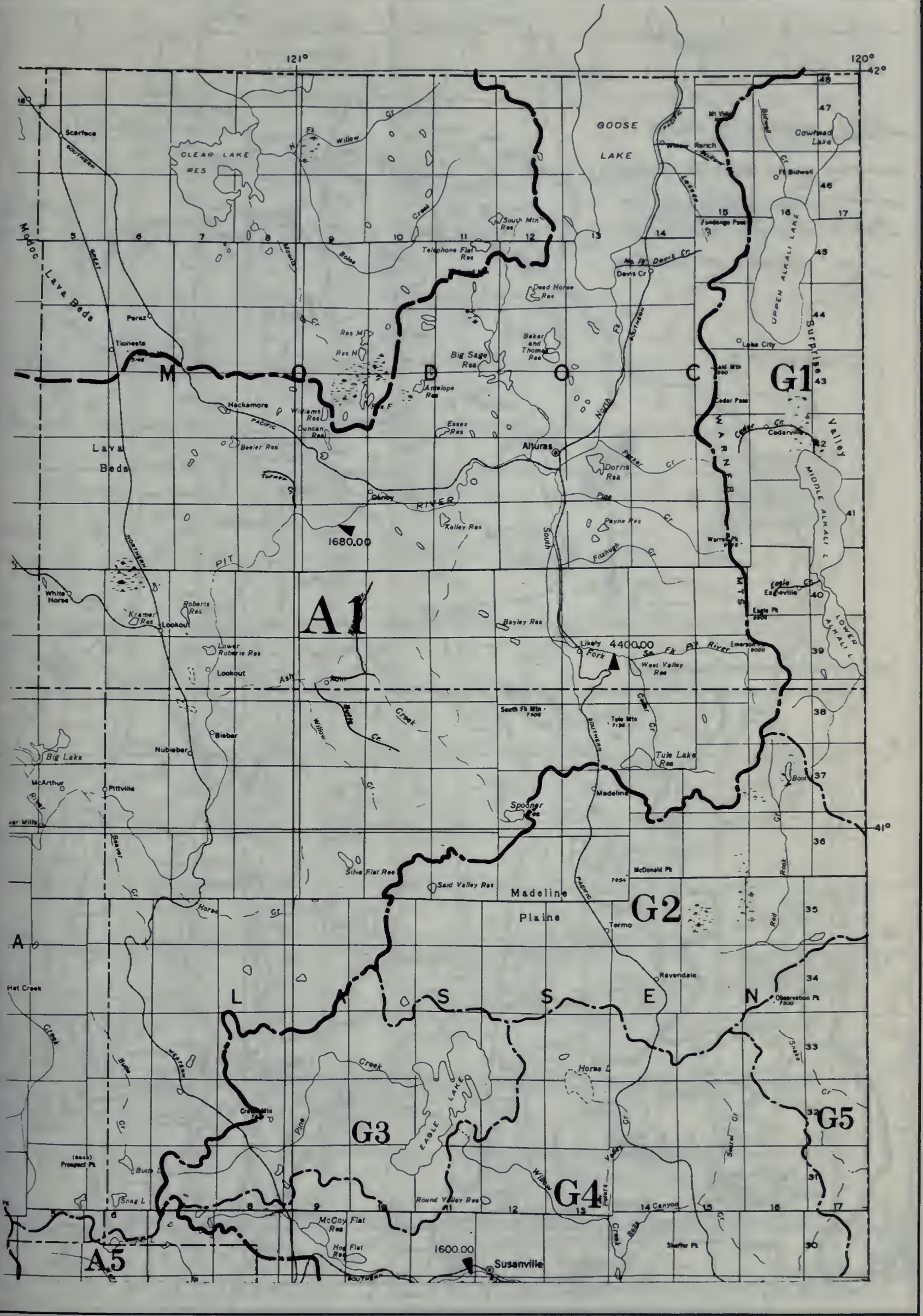
The second numbering system is used for stations located in broad water bodies. This system is described as follows. The first two digits show the hydrographic unit as identified in Appendix B on page 19. The third digit identifies the type of water body, and for this publication is a "B" for Bay system; "C" for canal; "D" for Sacramento-San Joaquin Delta system; "L" for lake; "R" for reservoir; "S" for slough; "V" for agricultural drain; and "X" for a channel of two-direction flow. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are the longitude in the same manner as latitude. A fifth digit indicates a sequence number when two stations have the same eight-digit latitude and longitude numbers.

Example: G7 L 904.5 008.4 2

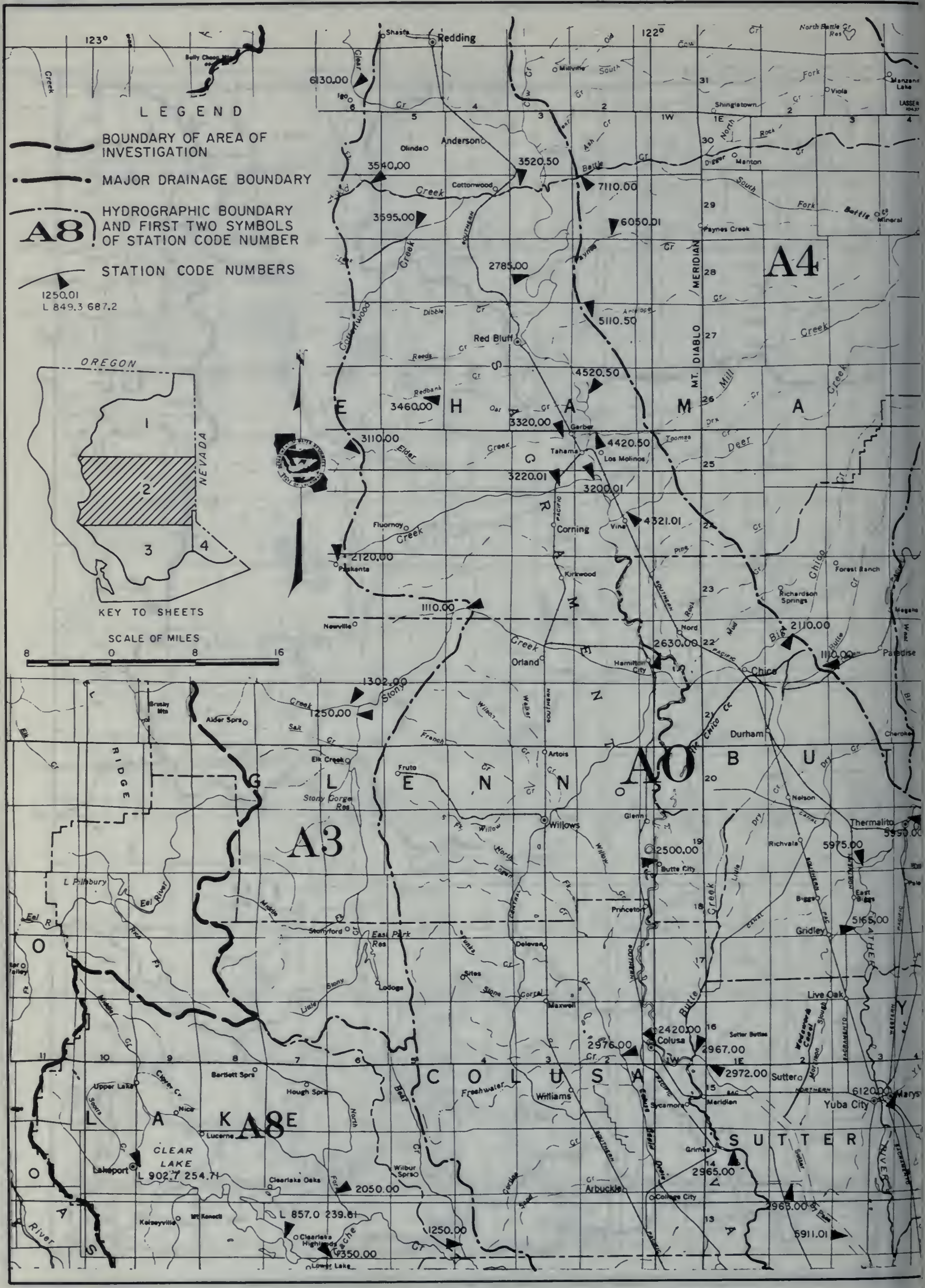
G7	North Lahontan Area, Truckee River Unit
L	Water Body -- Lake
9	39° Latitude
04.5	04.5' Latitude
0	120° Longitude
08.4	08.4' Longitude
2	Second Station



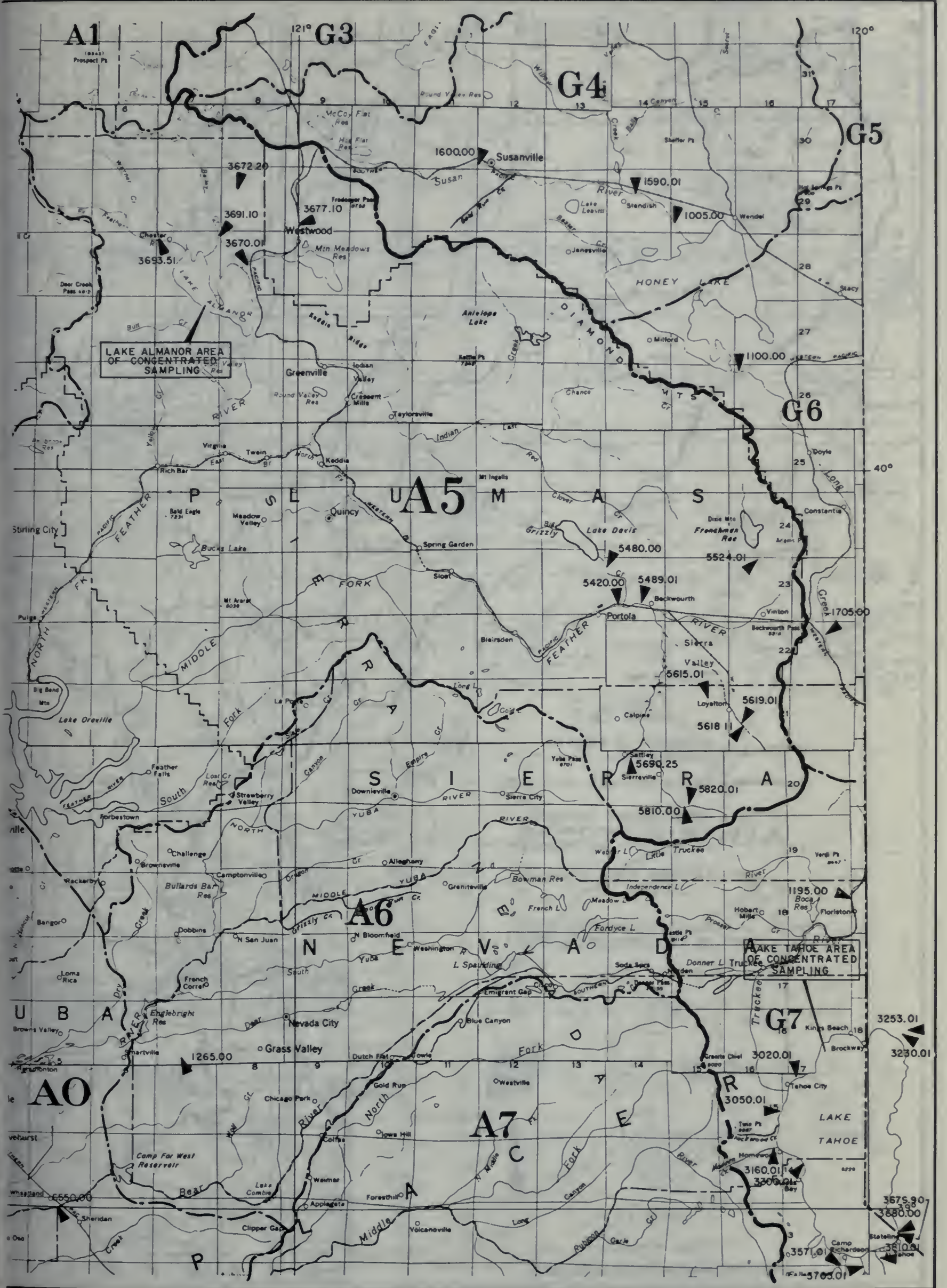
SURFACE WATER QUALITY SAMPLING STATIONS



SURFACE WATER QUALITY SAMPLING STATIONS



SURFACE WATER QUALITY SAMPLING STATIONS



SURFACE WATER QUALITY SAMPLING STATIONS



SURFACE WATER QUALITY SAMPLING STATIONS

TABLE D-1
SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED												
		LATITUDE	LONGITUDE		TABLE										FIGURE		
					D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-1	D-2	
AMERICAN RIVER AT SACRAMENTO WATER PLANT	A0 7140.10	38-33-35	121-24-57	10/68	276							378					259
ANTELOPE CREEK NEAR MOUTH NEAR RED BLUFF	A0 4520.50	40-06-30	122-06-35	10/58	275												256
ANTELOPE CREEK NEAR RED BLUFF	A4 5110.50	40-12-10	122-07-05	11/58	280												256
BAILEY CREEK AT HIGHWAY 36	A5 3691.10	40-18-28	121-08-44	05/73	282												257
BATTLE CREEK NEAR COTTONWOOD	A4 7110.00	40-23-50	122-08-05	04/68	280												256
BEAR CREEK NEAR RUMSEY	A8 1250.00	38-56-42	122-20-42	10/68	283							345					258
BEAR RIVER NEAR WHEATLAND	A0 6550.00	39-00-01	121-24-20	12/51	276									377			259
BEAVER SLOUGH NEAR THORNTON	B9 D 812.3 126.8	38-12-15	121-26-46	01/68	307										390		264
BIG BREAK NEAR OAKLEY	B9 D 801.1 142.6	38-01-05	121-42-38	03/68	294	317						326	350	365			265
BIG CHICO CREEK NEAR CHICO	A4 2110.00	39-46-18	121-45-45	07/52	280												256
BURTON CREEK IN STAR HARBOR (T-8)	G7 3020.01	39-10-54	120-07-08	08/71	314							337	360				260
BUTTE CREEK NEAR CHICO	A4 1110.00	39-43-34	121-42-28	07/52	279												256
BUTTE SLOUGH NEAR MERIDIAN	A0 2972.00	39-10-15	121-54-00	02/71	272							342		364			256
BUTTE SLOUGH AT OUTFALL GATES	A0 2967.00	39-11-42	121-56-06	08/69	271												256
CACHE CREEK NEAR CAPAY	A8 1120.00	38-43-43	122-06-14	12/51	283										380		258
CACHE CREEK NEAR LOWER LAKE	A8 1350.00	38-55-24	122-33-54	11/51	283								345				258
CACHE CREEK, NORTH FORK, NEAR LOWER LAKE	A8 2050.00	39-01-06	122-34-05	12/51	284												258
CARSON RIVER, EAST FORK, AT HIGHWAY 4	G8 3420.20	38-41-20	119-45-44	09/58	315												260
CARSON RIVER, WEST FORK, AT WOODFORDS	G8 2300.00	38-46-10	119-50-00	08/58	315												260
CLEAR CREEK NEAR IGO	A3 6130.00	40-30-47	122-31-24	04/58	279												254
CLEAR LAKE AT LAKEPORT	A8 L 902.7 254.71	39-02-36	122-54-48	04/51	282								345				258
COLUSA BASIN DRAIN AT HIGHWAY 20	A0 2976.00	39-11-45	122-03-35	07/62	272									364			256
COLUSA BASIN DRAIN NEAR KNIGHTS LANDING	A0 2947.10	38-48-45	121-46-25	03/67	270								341	363		375	258
COSUMNES RIVER AT MICHIGAN BAR	B1 1150.00	38-30-01	121-02-40	07/52	286											383	259
COSUMNES RIVER, MIDDLE FORK, NEAR SOMERSET	B1 3150.00	38-37-29	120-42-02	10/67	286												259
COSUMNES RIVER, NORTH FORK, NEAR EL DORADO	B1 2100.00	38-35-20	120-50-38		286												259
COSUMNES RIVER, SOUTH FORK, AT RIVER PINES	B1 4110.01	38-32-48	120-44-10	10/67	286												259
COTTONWOOD CREEK AT COTTONWOOD	A0 3520.50	40-22-35	122-16-45	04/51	273												256
COTTONWOOD CR BELOW NORTH FORK COTTONWOOD CR	A0 3540.00	40-23-00	122-29-10	10/58	274												256
COTTONWOOD CR, SOUTH FORK, NEAR COTTONWOOD	A0 3595.00	40-19-00	122-26-55	11/58	274												256
COW CREEK NEAR MILLVILLE	A4 8110.00	40-30-20	122-13-55	04/58	281												254
DEER CREEK AT HIGHWAY 99E	A0 4321.01	39-56-48	122-03-06	05/71	274												256
DISAPPOINTMENT SLOUGH NEAR LODI	B9 D 802.7 123.3	38-02-42	121-23-15		300											390	265
DUTCH SLOUGH AT BETHEL ISLAND BRIDGE	B9 D 800.7 138.4	38-00-43	121-38-24	05/55	293								325	349			265
EAST WALKER RIVER NEAR BRIDGEPORT	G9 3200.00	38-19-40	119-12-49	08/58	315												260
EDGEWOOD CREEK AT HIGHWAY 50 (T-7)	G7 3680.00	38-57-58	119-56-11	08/71	314								338	361			260
EDGEWOOD CREEK AT MOUTH (T-7A)	G7 3679.90	38-58-00	119-56-57	08/72	314								338	360			260
ELDER CREEK AT GERBER	A0 3320.00	40-18-06	122-09-54	01/59	273	317								343			256
ELDER CREEK NEAR PASKENTA	A3 3110.00	40-01-30	120-30-36	10/58	279												256
FALSE RIVER AT WEBB PUMP	B9 D 803.7 136.1	38-03-43	121-36-03	02/68	302												265
FEATHER RIVER NEAR GRIDLEY	A0 5165.00	39-22-01	121-38-43	03/67													256
FEATHER RIVER FISH HATCHERY	A0 5990.00	39-31-05	121-33-11	03/69													256
FEATHER RIVER AT NICOLAUS	A0 5103.00	38-54-01	121-35-00	03/49	275	317											258
FEATHER RIVER, NORTH FORK, AT CHESTER	A5 3693.51	40-18-38	121-13-39	05/73	282												257
FRANKS TRACT NEAR RUSSOS LANDING	B9 D 802.6 136.8	38-02-38	121-36-49	04/68	299												265
FRANKS TRACT AT STATION 5	B9 D 802.9 137.3	38-02-54	121-37-18		301												265
FRANKS TRACT AT STATION 6	B9 D 802.8 137.0	38-02-46	121-36-58		301												265
FRANKS TRACT AT STATION 7	B9 D 802.6 136.6	38-02-37	121-36-38		298												265
FRANKS TRACT AT STATION 8	B9 D 802.5 136.3	38-02-29	121-36-18		298												265
FRANKS TRACT AT STATION 9	B9 D 802.3 135.9	38-02-20	121-35-56	07/73	298												265
FRANKS TRACT AT STATION 10	B9 D 802.0 135.6	38-02-01	121-35-33	07/73	298												265
FRANKS TRACT AT STATION 11	B9 D 802.1 135.2	38-02-04	121-35-11	07/73	298												265
GENERAL CREEK NEAR MEEKS BAY (T-3)	G7 3300.01	39-03-15	120-06-49	07/68	314								338	360			260
GRANT LINE CANAL AT TRACY ROAD BRIDGE	B9 D 749.2 126.9	37-49-13	121-26-55	07/58	288												265
GRINDSTONE CREEK NEAR ELK CREEK	A3 1302.00	39-40-48	122-31-52	04/69	279												256
HAMILTON BRANCH AT LAKE ALMANOR	A5 3670.01	40-16-18	121-05-15	10/68	282												257
HOG SLOUGH NEAR THORNTON	B9 D 810.1 127.9	38-10-06	121-27-55		307												264
INCLINE CREEK AT INCLINE VILLAGE (T-2)	G7 3253.01	39-14-30	119-56-33	07/68	314												260
INDIAN CREEK RESERVOIR AT OUTLET	G8 3040.00	38-45-01	119-46-45	09/71	315												260
INDIAN SLOUGH NEAR BRENTWOOD	B9 D 755.1 137.3	37-55-05	121-37-18	09/52	289												265
LAKE ALMANOR NEAR BUNNEL POINT	A5 L 013.1 107.9	40-13-06	121-07-54	04/73	281												257
LAKE ALMANOR NEAR GOULD SWAMP	A5 L 017.6 110.0	40-17-36	121-10-00	10/72	282									345			257
LAKE ALMANOR AT INTAKE TOWER NEAR DAM	A5 L 010.7 105.1	40-10-40	121-05-06	09/69	281									344			257
LAKE ALMANOR NEAR LASSEN VIEW	A5 L 015.5 105.0	40-15-30	121-05-00	10/72	281												257
LAKE ALMANOR, MUD CREEK ARM ABOVE CAUSEWAY	A5 L 018.9 111.7	40-18-54	121-11-42	07/73													257
LAKE ALMANOR NEAR MUD CREEK MOUTH	A5 L 017.6 112.0	40-17-36	121-12-00	06/73													257
LAKE ALMANOR, EAST ARM, CENTER	A5 L 014.3 106.5	40-14-18	121-06-30	10/72	281	317											257
LAKE ALMANOR, EAST ARM, NEAR PRATTVILLE	A5 L 014.9 106.4	40-14-52	121-06-25	09/69	281												257
LAKE ALMANOR EASTERLY SHORE	A5 L 015.1 104.8	40-15-06	121-04-48	06/73													257
LAKE ALMANOR IN NORTH FORK FEATHER RIVER ARM	A5 L 017.3 111.6	40-17-18	121-11-38	10/72	282												257
LAKE ALMANOR, WEST ARM, CENTER	A5 L 015.5 111.1	40-15-30	121-11-06	10/72	281	317											257
LAKE ALMANOR, UPPER WEST ARM, NEAR CHESTER	A5 L 015.9 111.3	40-15-54	121-11-20	09/69	282												257
LAKE ALMANOR, WEST ARM, NEAR INTAKE TOWER	A5 L 013.2 109.8	40-13-12	121-09-48	03/73													257
LAKE ALMANOR, WEST ARM, NR LOWER PENINSULA	A5 L 014.1 109.2	40-14-06	121-09-12	10/72													257
LAKE ALMANOR, WEST ARM, WEST SHORE	A5 L 017.0 112.2	40-17-00	121-12-12	10/72	282												257
LAKE TAHOE AT CAMP RICHARDSON - EDWARDS PIER	G7 L 856.3 002.3	38-56-20	120-02-18	05/73	312												260
LAKE TAHOE AT CARNELIAN BAY - SIERRA BOAT CO	G7 L 913.5 004.9	39-13-32	120-04-51	08/73	313												260
LAKE TAHOE AT GLENBROOK BAY PIER (S-3)	G7 L 905.3 956.4	39-05-13	119-56-24	08/71	313												260
LAKE TAHOE AT INCLINE GUARD STATION (L-4)	G7 L 914.3 956.8	39-14-18	119-56-45	07/68	313												260
LAKE TAHOE AT KINGS BEACH PIER (S-7)	G7 L 914.2 002.3	39-14-14	120-02-16	07/71	313												260
LAKE TAHOE AT KINGS CASTLE PIER (S-4)	G7 L 914.2 956.6	39-14-14	119-56-37	08/71	313												260
LAKE TAHOE AT MEEKS BAY RESORT PIER (S-12)	G7 L 902.3 007.2	39-02-19	120-07-14	08/71	313												260
LAKE TAHOE - NORTH CENTER (C-2)	G7 L 908.7 000.3	39-08-42	120-00-15	07/68	313												260
LAKE TAHOE AT RUBICON BAY (L-2)	G7 L 900.9 006.81	39-00-52	120-06-48	07/68	312												260
LAKE TAHOE AT RUBICON BAY PIER (S-2)	G7 L 900.9 006.82	39-00-52	120-06-50	07/71	313												260
LAKE TAHOE - SOUTH CENTER (C-1)	G7 L 900.0 000.0	39-00-00	120-00-00	07/68	312												260
LAKE TAHOE AT STATELINE-LAKESIDE MARINA PIER	G7 L 857.6 957.1	38-57-33	119-57-03	05/73	312												260
LAKE TAHOE AT SURF AND SANDS PIER (S-10)	G7 L 857.0 958.02	38-57-00	119-58-00	07/71	312												260
LAKE TAHOE NEAR TAHOE KEYS (L-1)	G7 L 856.4 0																

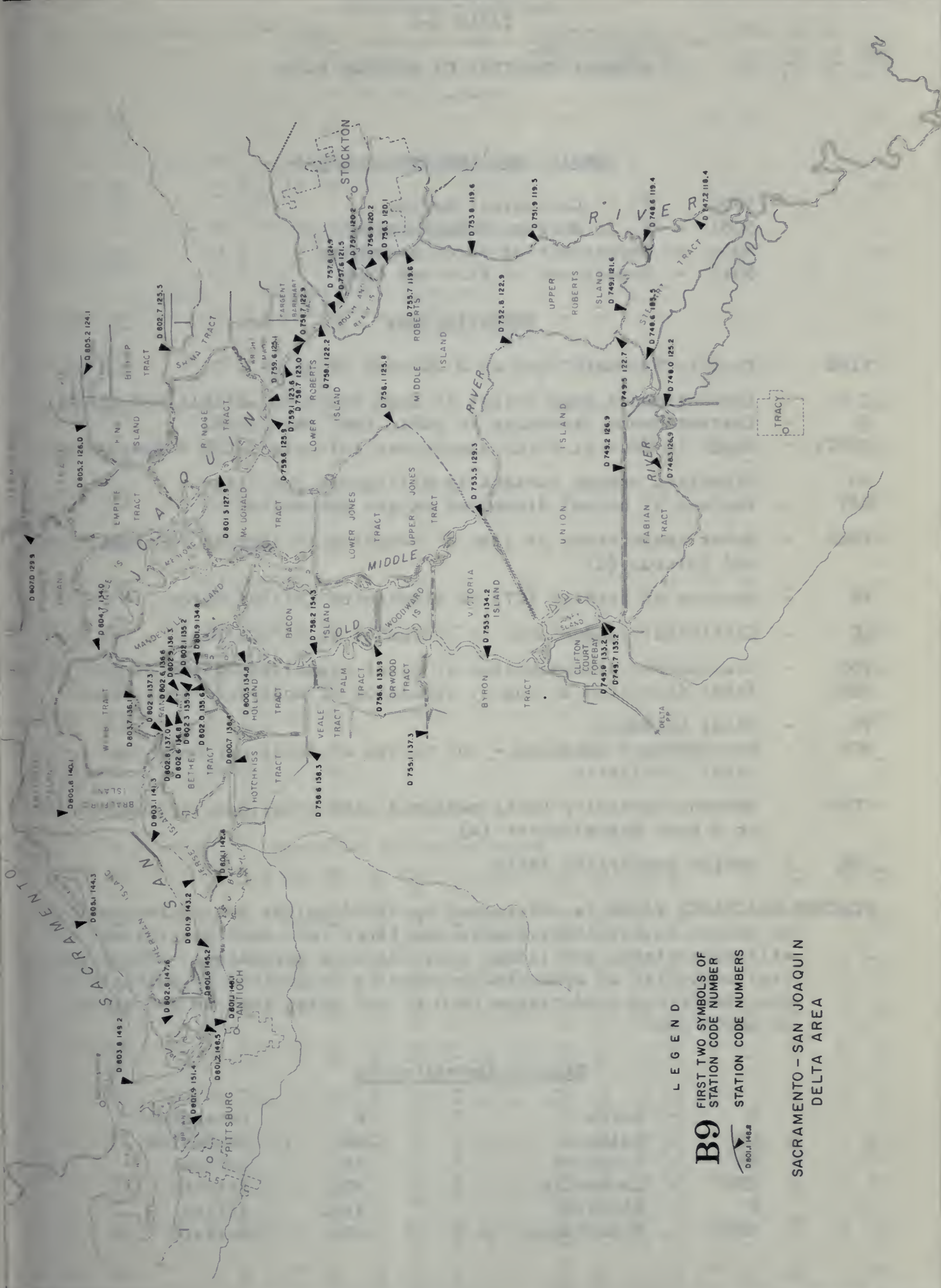
TABLE D-1 (Continued)
SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED													
		LATITUDE ° ' "	LONGITUDE ° ' "		TABLE											FIGURE		
					D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-1	D-2		
LAKE TAHOE AT TAHOE VISTA (L-7)	G7 L 914.2 002.2	39-14-10	120-02-11	07/68	313				337	360								260
LAKE TAHOE AT U.S. COAST GUARD PIER (S-5)	G7 L 910.8 007.12	39-10-50	120-07-05	08/71	313				337	360								260
LAKE TAHOE AT WARD CREEK PIER (S-11)	G7 L 907.8 009.2	39-07-50	120-09-09	08/71	313				337	359								260
LAKE TAHOE AT ZEPHYR COVE (L-8)	G7 L 900.5 956.9	39-00-32	119-56-56	07/68	312				336	359								260
LAKE TAHOE AT ZEPHYR COVE PIER (S-8)	G7 L 900.4 956.9	39-00-26	119-56-56	08/71	312				336	359								260
LONG VALLEY CREEK NEAR DOYLE NEAR MOUTH	G6 1100.00	40-08-02	120-12-18		311													257
LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION	G6 1705.00	39-46-55	120-04-14	03/71	312 318				359	366								257
MADDEN CREEK NEAR MOUTH (T-10)	G7 3160.01	39-05-27	120-09-43	08/71	314				337	360								260
MCLOUD RIVER ABOVE SHASTA LAKE	A2 2150.00	40-57-30	122-13-05	04/51	277 317					343 364								254
MIDDLE RIVER AT BORDEN HIGHWAY	B9 D 753.5 129.3	37-53-28	121-29-20	09/68	289				323	347 364				390				265
MIDDLE RIVER AT WILLIAMS BRIDGE	B9 D 752.6 122.9	37-52-35	121-22-56		288													265
MIDDLE RIVER AT HEAD	B9 D 749.5 122.7	37-49-28	121-22-41	09/73	288				323	347								265
MILL CREEK NEAR MOUTH NEAR LOS MOLINOS	A0 4420.50	40-02-35	122-05-55	07/52	275													256
MOKELUMNE RIVER NEAR THORNTON	B9 D 815.3 126.3	38-15-20	121-26-21	02/68	308				335	357 365				390				264
MOKELUMNE RIVER AT WOODBRIDGE	B0 2105.00	38-09-30	121-18-10	04/51	284								381					259
MOKELUMNE RIVER, SO. FORK, AT STATEN ISLAND	B9 D 807.0 129.9	38-07-02	121-29-51	11/72	305				333	355				390				265
NATOMAS EAST MAIN DRAIN AT SACRAMENTO	A0 V 836.3 128.4	38-36-18	121-28-25		267 317					340 363								259
NATOMAS MAIN DRAIN TO SACRAMENTO RIVER	A0 V 836.4 131.4	38-36-22	121-31-25		267 317					340 363								258
NEW YORK SLOUGH NEAR PITTSBURG POINT	B9 D 801.9 151.4	38-01-54	121-51-25	09/68	297 318				328	351								265
OLD RIVER NEAR BYRON	B9 D 753.5 134.2	37-53-28	121-34-09	10/64	289													265
OLD RIVER AT CLIFTON COURT FERRY	B9 D 749.5 133.1	37-49-28	121-33-05	09/52									370					265
OLD RIVER ABOVE HEAD OF MIDDLE RIVER	B9 D 749.1 121.6	37-49-07	121-21-34	09/73	288				322	347								265
OLD RIVER BELOW HEAD OF MIDDLE RIVER	B9 D 748.6 123.5	37-48-33	121-23-31	09/73	288													265
OLD RIVER AT HOLLAND TRACT	B9 D 800.5 134.8	38-00-27	121-34-47	04/68	293					325 349								265
OLD RIVER OPPOSITE RANCHO DEL RIO	B9 D 758.2 134.3	37-58-14	121-34-19	07/73	291				324	348								265
OLD RIVER AT PALM TRACT	B9 D 756.6 133.9	37-56-36	121-33-52		290				323	348								265
OLD RIVER (STATION 12)	B9 D 801.9 134.8	38-01-56	121-34-48		297													265
OLD RIVER AT TRACY ROAD BRIDGE	B9 D 748.3 126.9	37-48-17	121-26-55	02/68	287				322	346				390				265
PAYNES CREEK NEAR RED BLUFF	A4 6050.01	40-18-54	122-04-12	10/58	280													256
PIT RIVER NEAR CANBY	A1 1680.00	41-24-23	120-55-38	04/51	276 317					343 364								255
PIT RIVER NEAR MONTGOMERY CREEK	A1 1020.00	40-50-30	122-01-00	04/51	276 317					343 364								255
PIT RIVER, SOUTH FORK, NEAR LIKELY	A1 4400.00	41-13-51	120-26-10	08/58	277													255
PUTAH CREEK NEAR WINTERS	A9 1250.00	38-30-55	122-04-50	12/51	284													258
RED BANK CREEK NEAR RED BLUFF	A0 3460.00	40-05-25	122-24-45	01/59	273													256
ROBBERS CREEK AT HIGHWAY 36	A5 3677.10	40-18-56	121-00-08	05/73	282					345								257
ROCK CREEK AT HIGHWAY 36	A5 3672.20	40-18-55	121-05-10	05/73	282					345								257
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE	B9 D 758.6 138.3	37-58-35	121-38-19	09/52	291				324	348								265
R-D 70 DRAINAGE TO SACRAMENTO RIVER	A0 2965.00	39-04-06	121-51-42	08/69	271					342 363								256
R-D 108 DRAINAGE TO SACRAMENTO RIVER	A0 2933.00	38-51-48	121-47-30	08/69	270					341 363								258
R-D 787 DRAINAGE TO COLUSA BASIN DRAIN	A0 2950.00	38-48-06	121-43-36	08/69	270					342 363								258
R-D 787 DRAINAGE TO SACRAMENTO RIVER	A0 2955.00	38-50-48	121-43-48	08/69	270					342 363								258
R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL	A0 V 847.4 135.8	38-47-25	121-35-47		267 317					340 363								258
R-D 1500 DRAINAGE TO SACRAMENTO SLOUGH	A0 2926.00	38-47-06	121-39-18		270					363								258
R-D 1660 DRAINAGE TO TISDALE BYPASS	A0 2963.00	39-01-06	121-46-54		271					363								258
SACRAMENTO RIVER AT BEND BRIDGE	A0 2785.00	40-15-48	122-13-19	01/57	269													256
SACRAMENTO RIVER AT BUTTE CITY	A0 2500.00	39-27-25	121-59-35	01/57	269													256
SACRAMENTO RIVER AT COLUSA	A0 2420.00	39-12-48	121-59-54	10/58	268					363			374					256
SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN	A0 2230.02	38-48-29	121-43-25	07/60	268					340 363								258
SACRAMENTO RIVER AT DELTA	A2 1300.00	40-56-20	122-24-55	04/51	277 317					343 364								254
SACRAMENTO RIVER AT ELKHORN FERRY	A0 2112.00	38-40-33	121-37-15	08/69	267 317					340 363								258
SACRAMENTO RIVER AT EMMATON	B9 D 805.1 144.3	38-05-04	121-44-17	10/67	303				332	354 365								265
SACRAMENTO RIVER AT FREEPORT	B9 D 827.3 130.0	38-27-21	121-30-00	06/60	310													264
SACRAMENTO RIVER AT FREMONT WEIR, WEST END	A0 2170.00	38-45-34	121-39-59	06/65	267 317					340 363 367 373								258
SACRAMENTO RIVER AT GREENES LANDING	B9 D 820.7 132.7	38-20-45	121-32-42	07/62	309 318 320 335					358 366 372 386 390								264
SACRAMENTO RIVER AT HAMILTON CITY	A0 2630.00	39-45-06	121-59-48	04/51	269													256
SACRAMENTO RIVER AT KESWICK	A2 1010.00	40-36-40	122-26-45	04/51	277					343 364								254
SACRAMENTO RIVER BELOW KNIGHTS LANDING	A0 2195.01	38-45-48	121-40-45	07/67	268													258
SACRAMENTO RIVER ABOVE POINT SACRAMENTO	B9 D 803.8 149.2	38-03-45	121-49-10		302 318 330					353 365								265
SACRAMENTO RIVER AT RIO VISTA BRIDGE	B9 D 809.6 141.1	38-09-35	121-41-06						334									264
SACRAMENTO RIVER BELOW RIO VISTA BRIDGE	B9 D 809.4 141.0	38-09-27	121-41-01	01/68	306 318				333	356 365								264
SACRAMENTO RIVER AT WALNUT GROVE	B9 D 814.5 130.8	38-14-32	121-30-48	12/60									372					264
SACRAMENTO SLOUGH AT SACRAMENTO RIVER	A0 2925.00	38-46-50	121-38-20	01/51	269					341								258
SAN JOAQUIN RIVER AT ANTIOCH	B9 D 801.1 148.1	38-01-04	121-48-06	04/51	295								371 385					265
SAN JOAQUIN RIVER AT ANTIOCH BR (LIGHT 12)	B9 D 801.6 145.2	38-01-38	121-45-12	06/60	296 318				327	351								265
SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL	B9 D 801.2 148.5	38-01-15	121-48-28	01/68	295 318				326	350 365								265
SAN JOAQUIN RIVER AT BLIND POINT	B9 D 801.9 143.2	38-01-57	121-43-09	05/68	297													265
SAN JOAQUIN RIVER AT BRANDT BRIDGE	B9 D 751.9 119.3	37-51-53	121-19-19	03/57	288				323	347								265
SAN JOAQUIN RIVER AT BUCKLEY COVE	B9 D 758.7 122.9	37-58-42	121-22-55	02/68	292				324	349 365				390				265
SAN JOAQUIN RIVER BELOW FAIRCHILD SCHOOL	B9 D 753.8 119.6	37-53-47	121-19-38	09/73	289													265
SAN JOAQUIN RIVER BELOW HEAD OF OLD RIVER	B9 D 748.6 119.4	37-48-37	121-19-21	09/73	288													265
SAN JOAQUIN RIVER AT HIGHWAY 4	B9 D 755.7 119.6	37-55-42	121-19-38	09/52	289				323	347								265
SAN JOAQUIN RIVER AT JERSEY POINT	B9 D 803.1 141.3	38-03-09	121-41-17	10/67	301 318					329 353 365								265
SAN JOAQUIN RIVER AT POTSDALE BRIDGE	B9 D 747.2 118.4	37-47-11	121-18-22	09/52	286					322 346 364								265
SAN JOAQUIN RIVER AT POTATO POINT	B9 D 804.7 134.0	38-04-40	121-34-00	03/71	302 318				331	354 365								265
SAN JOAQUIN RIVER AT RINDGE PUMP	B9 D 759.8 125.1	37-59-51	121-25-06	01/65									371					265
SAN JOAQUIN R. BELOW SANTE FE RR AT STOCKTON	B9 D 756.3 120.1	37-56-20	121-20-07	09/73	290				323	348								265
SAN JOAQUIN RIVER AT TWITCHELL ISLAND	B9 D 805.8 140.1	38-05-50	121-40-05	02/68	304				332	355								265
SAN JOAQUIN RIVER AT U.S. NAVAL RES RR XING	B9 D 756.9 120.2	37-56-54	121-20-10	09/73	290													265
SAN JOAQUIN RIVER NEAR VERNALIS	B0 7020.00	37-40-34	121-15-51	04/51	285 317 320 322				345 364				390					259
SHERMAN LAKE NEAR ANTIOCH	B9 D 802.6 147.6	38-02-34	121-47-34	11/68	299				329	352								265
SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BR	B9 D 819.1 130.1	38-19-03	121-30-04		308				335	357				390				264
SNODGRASS SLOUGH AT TWIN CITIES ROAD	B9 D 816.6 129.8	38-16-37	121-29-45	02/68	308													264
SQUIRREL CREEK NEAR PENN VALLEY																		

TABLE D-1 (Continued)

SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED												
		LATITUDE ° ' "	LONGITUDE ° ' "		TABLE										FIGURE		
					D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-1	D-2	
STOCKTON SHIP CHANNEL AT LIGHT 43	B9 D 757.6 121.5	37-57-34	121-21-31	09/73	290					324	348						265
STOCKTON SHIP CHANNEL AT LIGHT 48	B9 D 757.1 120.2	37-57-07	121-20-12	09/73	290					324	348						265
STONY CREEK BELOW BLACK BUTTE DAM	A3 1110.00	39-49-00	122-20-10	01/58	278						343						256
STONY CREEK NEAR PRUTO	A3 1250.00	39-40-15	122-31-05	02/60	278						344						256
SUGAR CUT AT MOUTH	B9 D 748.0 125.2	37-48-02	121-25-12	09/73	287					322	346						265
SUSAN RIVER NEAR LITCHFIELD	G4 1590.01	40-22-45	120-23-35	11/68	310	318					359	366					257
SUSAN RIVER NEAR MOUTH	G4 1005.00	40-21-30	120-17-48	02/72	310												257
SUSAN RIVER AT SUSANVILLE	G4 1600.00	40-25-05	120-40-15	04/51	311	318					359	366					257
SYCAMORE SLOUGH AT DRAIN	B9 D 808.8 125.8	38-08-48	121-25-46	02/69	305						333	356			390		264
TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)	G7 3571.01	38-55-50	120-03-13	07/68	314						338	360					260
THERMALITO AFTERBAY RELEASE TO FEATHER RIVER	A0 5975.00	39-27-24	121-38-09											368			256
THIRD CREEK NEAR MOUTH (T-6)	G7 3230.01	39-14-26	119-56-46	08/71	314					338	360						260
THOMES CREEK AT PASKENTIA	A3 2120.00	39-52-55	122-33-05	10/58	279						344						256
THOMES CREEK AT RICHFIELD	A0 3220.01	39-58-45	122-10-35	01/59	272												256
TROUT CREEK NEAR MOUTH (T-9)	G7 3810.01	38-55-55	119-58-40	08/71	314					338	361						260
TRUCKEE RIVER AT FARAD	G7 1195.00	39-25-13	120-01-51	04/51	313												257
UPPER TRUCKEE RIVER NEAR MOUTH (T-1)	G7 3705.01	38-55-24	119-59-28	07/68	314					338	361						260
WARD CREEK NEAR MOUTH (T-5)	G7 3050.01	39-07-57	120-09-24	08/71	314					337	360						260
WEST CANAL AT INTAKE GATES TO CLIFTON CT FBY	B9 D 749.7 133.2	37-49-43	121-33-11	07/73	288												265
WEST CANAL AT MOUTH OF INTAKE TO CLIF CT FBY	B9 D 749.8 133.2	37-49-50	121-33-09	03/73	288	317				323	347	364			390		265
WEST WALKER RIVER BELOW LITTLE WALKER RIVER	G9 2460.00	38-22-48	119-27-00	08/58	315												260
WHISKY SLOUGH AT HOLT	B9 D 756.1 125.8	37-56-07	121-25-49	02/68	290												265
WHITE SLOUGH NEAR LODI	B9 D 805.2 126.0	38-05-07	121-26-03		304					332	355			390			265
WHITE SLOUGH AT RIO BLANCO TRACT	B9 D 805.2 124.1	38-05-14	121-24-07		304					332	355						265
YOLO BYPASS BELOW SACRAMENTO BYPASS	A0 2905.00	38-35-06	121-35-00	04/72	269	317					341	363					258
YUBA RIVER AT MARYSVILLE	A0 6120.00	39-08-32	121-34-30	04/51	276									369	376		256



B9
 FIRST TWO SYMBOLS OF
 STATION CODE NUMBER

▲
 STATION CODE NUMBERS

○
 SACRAMENTO - SAN JOAQUIN
 DELTA AREA

SURFACE WATER QUALITY SAMPLING STATIONS

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

Sampler and Lab Agency Codes

- 5000 - U. S. Geological Survey
- 5001 - U. S. Bureau of Reclamation
- 5050 - Department of Water Resources
- 5073 - Department of Fish and Game

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- G.H. - Instantaneous gage height in feet above an established datum
- Q - Instantaneous discharge in cubic feet per second
- DEPTH - Depth in feet at which sample was collected (COM = Composite)
- DO - Dissolved oxygen content in milligrams per liter
- SAT - Percent of normal dissolved oxygen saturation
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- EC - Electrical conductance in micromhos at 25° Celsius
- TDS - Gravimetric determination of total dissolved solids at 180° C
- SUM - Total dissolved solids by summation of analyzed constituents
- TH - Total hardness
- NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
- TURB - Jackson Turbidity Units measured with a Hellige Turbidimeter (E) or a Hack Nephelometer (A)
- SAR - Sodium adsorption ratio

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum

Mineral Constituents

- | | | | | | |
|------|---|-------------|------|---|-----------|
| B | - | Boron | K | - | Potassium |
| CA | - | Calcium | MG | - | Magnesium |
| CL | - | Chloride | NA | - | Sodium |
| C03 | - | Carbonate | N03 | - | Nitrate |
| F | - | Fluoride | SI02 | - | Silica |
| HC03 | - | Bicarbonate | S04 | - | Sulfate |

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR				
		A0 V 836.3		128.4	NATOMAS EAST MAIN DRAIN AT SACRAMENTO																		
11/14/72	5050		6.7	52	F	6.8	135	--	--	--	--	--	--	--	--	--	--	--	--	25A			
0800	5050		61	11	C	7.2	140																
		A0 V 836.4		131.4	NATOMAS MAIN DRAIN TO SACRAMENTO RIVER																		
11/14/72	5050		9.6	51.5F	7.2	620	--	--	--	--	--	--	--	--	--	--	--	--	--	40A			
0845	5050		86	10.8C	7.9	709																	
		A0 V 847.4		135.8	R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL																		
11/14/72	5050		9.0	51	F	7.3	475	--	--	--	--	--	--	--	--	--	--	--	--	90A			
0945	5050		81	11	C	7.6	557																
		A0		2112.00	SACRAMENTO RIVER AT ELKHORN FERRY																		
10/18/72	5050		10.1	58	F	7.3	110	--	--	--	--	--	--	--	--	--	--	--	--	4A			
0845	5050		99	14	C		116																
11/14/72	5050		10.6	51	F	7.4	153	--	--	--	--	--	--	--	--	--	--	--	--	20A			
0915	5050		95	11	C	7.8	157																
12/20/72	5050		11.1	46	F	7.3	98	--	--	--	--	--	--	--	--	--	--	--	--	125A			
0915	5050		93	8	C		102																
01/17/73	5050		10.3	50	F	7.1	83	--	--	--	--	--	--	--	--	--	--	--	--	85A			
0945	5050		91	10	C		85																
02/21/73	5050		10.9	49	F	7.3	135	--	--	--	--	--	--	--	--	--	--	--	--	24A			
1000	5050		95	9	C		142																
03/21/73	5050		10.9	49	F	7.3	170	--	--	--	--	--	--	--	--	--	--	--	--	13A			
0915	5050		95	9	C		175																
04/18/73	5050		10.3	57.0F	7.4	138	--	--	--	--	--	--	--	--	--	--	--	--	--	16A			
1000	5050		99	13.9C		150																	
05/16/73	5050		9.1	71.0F	7.5	167	--	--	--	--	--	--	--	--	--	--	--	--	--	15A			
0915	5050		103	21.6C		183																	
06/20/73	5050		9.2	72	F	7.7	158	--	--	--	--	--	--	--	--	--	--	--	--	8A			
1230	5050		105	22	C		177																
07/18/73	5050		9.5	71	F	7.7	130	--	--	--	--	--	--	--	--	--	--	--	--	13A			
0750	5050		107	22	C		140																
08/15/73	5050		8.2	72	F	7.6	160	--	--	--	--	--	--	--	--	--	--	--	--	6A			
0715	5050		94	22	C		162																
09/19/73	5050		8.6	65	F	7.4	130	--	--	--	--	--	--	--	--	--	--	--	--	7A			
0715	5050		91	18	C		157																
		A0		2170.00	SACRAMENTO RIVER AT FREMONT WEIR, WEST END																		
10/18/72	5050	18.13	9.6	60	F	7.5	184	12	8.0	17	1.0	0	85	16	9.1	.6	.10	--	126	64	10A		
1130	5050		96	16	C	7.4	202	.60	.66	.74	.03	.00	1.39	.33	.26	.01	--	--	106	0	0.9		
								30	33	36	1		70	17	13	1							
11/14/72	5050	20.70	10.2	52	F	7.4	230	14	8.9	22	1.8	0	91	25	13	1.2	.20	--	162	71	30A		
1200	5050		93	11	C	7.5	246	.70	.73	.96	.05	.00	1.49	.52	.37	.02	--	--	131	0	1.1		
								29	30	39	2		62	22	15	1							
12/20/72	5050	28.75	11.3	44	F	7.3	115	5.3	7.3	7.0	1.3	0	52	9.0	5.2	.8	.10	--	94	43	100A		
1145	5050		92	7	C	7.2	119	.26	.60	.30	.03	.00	.85	.19	.15	.01	--	--	62	1	0.5		
								22	50	25	3		71	16	13	1							
01/17/73	5050	36.00	10.6	48	F	7.3	150	10	7.8	8.4	1.2	0	71	10	6.6	1.4	.00	--	136	57	95A		
1100	5050		91	9	C	7.5	156	.50	.64	.37	.03	.00	1.16	.21	.19	.02	--	--	80	0	0.5		
								32	42	24	2		73	13	12	1							
02/20/73	5050	27.62	11.7	47.5F	7.3	137	11	6.2	8.3	1.1	0	65	11	4.0	1.0	.00	--	82	53	60A			
1030	5050		100	8.6C	7.3	136	.55	.51	.36	.03	.00	1.07	.23	.11	.02	--	--	75	0	0.5			
								38	35	25	2		75	16	8	1							
02/21/73	5050	34.05	10.6	49.6F	7.3	169	11	9.4	10	.9	0	85	12	7.9	1.1	.00	--	118	66	28A			
1120	5050		93	9.8C	7.6	179	.55	.77	.44	.02	.00	1.39	.25	.22	.02	--	--	94	0	0.5			
								31	43	25	1		74	13	12	1							
03/21/73	5050	24.06	10.6	50.8F	7.5	218	17	9.2	15	1.0	0	97	18	10	1.6	.10	--	133	81	14A			
1000	5050		95	10.4C	7.6	229	.85	.76	.65	.03	.00	1.59	.37	.28	.03	--	--	120	1	0.7			
								37	33	28	1		70	16	12	1							
04/18/73	5050	19.41	10.1	58.2F	7.7	200	15	9.0	14	1.1	0	92	18	9.8	1.2	.10	--	129	75	20A			
1130	5050		99	14.5C	7.6	219	.75	.74	.61	.03	.00	1.51	.37	.28	.02	--	--	113	0	0.7			
								35	35	29	1		69	17	13	1							
05/16/73	5050	16.91	9.3	69.8F	7.3	180	13	8.0	15	1.2	0	84	18	8.1	.4	.00	--	128	66	18A			
1100	5050		104	21.0C	7.7	202	.65	.66	.65	.03	.00	1.38	.37	.23	.01	--	--	105	0	0.8			
								33	33	33	2		69	19	12	1							
06/20/73	5050	15.37	9.2	68	F	7.6	170	13	9.1	16	.9	0	87	21	7.3	.6	.10	--	142	70	13A		
1000	5050		101	20	C	8.1	201	.65	.75	.70	.02	.00	1.43	.44	.21	.01	--	--	111	0	0.8		
								31	35	33	1		68	21	10								

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TO5 SUM	TH NCH	TURB SAR	
A0 2170.00		SACRAMENTO RIVER AT FREMONT WEIR, WEST END						CONTINUED													
07/18/73	5050	16.86	9.6	69	F	7.6	165	12	8.5	14	1.1	0	83	17	5.9	.5	.10	--	132	65	15A
1030	5050		106	21	C	7.8	182	.60	.70	.61	.03	.00	1.36	.35	.17	.01	--	--	100	0	0.8
								31	36	31	2		72	19	9	1					
08/15/73	5050	17.11	8.4	70	F	7.6	195	14	9.0	16	.7	0	99	14	8.1	.4	.10	--	136	72	12A
0915	5050		94	21	C	8.2	213	.70	.74	.70	.02	.00	1.62	.29	.23	.01	--	--	111	0	0.8
								32	34	32	1		75	13	11						
09/19/73	5050		8.6	65	F	7.7	170	13	9.7	16	.9	0	96	15	9.2	.4	.10	--	129	72	18A
0915	5050		91	18	C	7.9	212	.65	.80	.70	.02	.00	1.57	.31	.26	.01	--	--	112	0	0.8
								30	37	32	1		73	14	12						
A0 2195.01		SACRAMENTO RIVER BELOW KNIGHTS LANDING																			
10/19/72	5050	18.00	9.2	59.0F	7.6	157	--	--	11	--	0	0	76	--	6.2	--	.10	--		56	9A
0830	5050	9100	91	15.0C	7.5	161			.48		.00	1.25		.17			--	--			0.6
									30												
11/14/72	5050	20.68	10.3	50.0F	7.5	220	--	--	20	--	0	0	82	--	13	--	.10	--		66	84A
1625	5050	13000	91	10.0C	7.6	232			.87		.00	1.34		.37			--	--			1.1
									40												
12/21/72	5050	28.83	10.9	48.2F	7.6		9.1	3.6	4.8	1.6	0	0	46	6.1	1.9	.3	.00	--	74	38	150A
1445	5050	28900	94	9.0C	7.2	101	.45	.30	.21	.04	.00	.75	.13	.05	.00		--	--	50	0	0.3
							45	30	21	4		.81	14	5							
03/27/73	5050	23.78	8.8	55.4F	7.5	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27AF
1530	5050	16400	83	13.0C																	
04/17/73	5050	19.62	9.4	58.1F	7.4	161	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22AF
1450	5050	11900	92	14.5C																	
05/09/73	5050	16.27	8.6	66.2F	7.6	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23AF
1540	5050	5730	92	19.0C																	
06/26/73	5050	15.80	8.4	70.7F	7.8	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF
1505	5050	7470	94	21.5C																	
07/25/73	5050	17.18	9.8	70.7F	7.7	184	--	--	12	--	0	0	86	--	6.8	--	.10	--		64	11A
1450	5050	8950	110	21.5C	7.9	183			.52		.00	1.41		.19			--	--			0.7
									29												
08/14/73	5050	17.16	9.9	69.8F	7.8	212	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14AF
1420	5050	7160	110	21.0C																	
09/26/73	5050	18.43	11.2	64.4F	8.3	174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF
1445	5050	10400	118	18.0C																	
A0 2230.02		SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN																			
10/18/72	5050	20.11	9.9	59.9F	7.4	125	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9A
1215	5050	8740	99	15.5C																	
11/14/72	5050	23.12	10.3	50.0F	7.4		--	--	7.5	--	0	0	63	--	4.2	--	.10	--		50	22A
1205	5050	11700	91	10.0C	7.4	141			.33		.00	1.03		.12			--	--			0.5
									25												
12/21/72	5050	31.95	11.0	46.4F	7.2	107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1245	5050	28900	93	8.0C																	
07/25/73	5050	19.27	9.2	70.7F	9.2	142	--	--	7.3	--	0	0	70	--	4.5	--	.00	--		55	5A
1225	5050	8490	104	21.5C	7.7	141			.32		.00	1.15		.13			--	--			0.4
									23												
A0 2420.00		SACRAMENTO RIVER AT COLUSA																			
10/18/72	5050	43.76	9.6	59.0F	7.4	138	--	--	8.4	--	0	0	66	--	6.8	--	.20	--		50	13A
0900	5050	8610	95	15.0C	7.4	139			.37		.00	1.08		.19			--	--			0.5
									27												
11/14/72	5050	44.56	10.4	50.0F	7.3		--	--	7.0	--	0	0	61	--	4.7	--	.10	--		49	28A
1005	5050	10800	92	10.0C	7.1	141			.30		.00	1.00		.13			--	--			0.4
									23												
12/21/72	5050	57.56	11.0	48.2F	7.2		--	--	5.8	--	0	0	56	--	4.4	--	.00	--		45	72A
1015	5050	26800	95	9.0C	7.3	119			.25		.00	.92		.12			--	--			0.4
									22												
01/23/73	5050	63.50	11.6	45.5F	7.9	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74AF
1110	5050	37400	97	7.5C																	
02/22/73	5050	57.28	10.7	50.0F	7.4	152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35AF
1015	5050	26400	95	10.0C																	
03/27/73	5050	49.35	9.0	54.5F	7.9	173	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20AF
1045	5050	15100	84	12.5C																	
04/17/73	5050	46.14	9.7	59.0F	7.4	158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11AF
0955	5050	11000	96	15.0C																	
05/09/73	5050	44.16	9.5	62.6F	7.4	135	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8AF
1050	5050	9030	98	17.0C																	
06/26/73	5050	43.49	9.3	65.3F	7.9	12A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF
0930	5050	8170	99	18.5C																	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TOS	TH
A0 2420.00		SACRAMENTO RIVER AT COLUSA						CONTINUED											
07/25/73 0955	5050 5050	44.58 9510	10.4 108	63.5F 17.5C	7.6 122	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
08/14/73 0915	5050 5050	43.36 8110	10.5 110	64.4F 18.0C	7.8 127	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
09/26/73 0950	5050 5050	43.31 9050	11.6 115	59.0F 15.0C	7.6 125	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
A0 2500.00		SACRAMENTO RIVER AT BUTTE CITY																	
11/14/72 0820	5050 5050	72.87 13000	10.5 93	50.0F 10.0C	7.3 130	--	--	--	--	--	--	--	--	--	--	--	--	--	27AF
01/23/73 0955	5050 5050	86.20 60500	9.4 77	44.6F 7.0C	7.4 143	--	--	--	--	--	--	--	--	--	--	--	--	--	76AF
03/27/73 0905	5050 5050	73.77 14900	9.0 83	53.6F 12.0C	7.6 175 174	--	--	7.3 .32 18	--	0 .00	85 1.39	--	4.1 .12	--	.00 --	--	--	71	10A 0.4
05/09/73 0920	5050 5050	71.64 9420	9.8 97	59.0F 15.0C	7.4 138 145	--	--	6.7 .29 21	--	0 .00	72 1.18	--	3.4 .10	--	.00 --	--	--	56	5A 0.4
07/25/73 0825	5050 5050	71.99 10000	10.0 100	59.9F 15.5C	7.4 120	--	--	--	--	--	--	--	--	--	--	--	--	--	4AF
09/26/73 0820	5050 5050	71.69 9420	11.4 110	57.2F 14.0C	7.3 123	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
A0 2630.00		SACRAMENTO RIVER AT HAMILTON CITY																	
11/01/72 0730	5050 5050	28.31 7180	10.0 91	51.8F 11.0C	7.3 128	--	--	--	--	--	--	--	--	--	--	--	--	--	5AF
01/22/73 0830	5050 5050	38.67 53390	12.1 102	46.4F 8.0C	8.0 130	--	--	--	--	--	--	--	--	--	--	--	--	--	39AF
03/21/73 0935	5050 5050	32.47 21060	10.0 86	47.3F 8.5C	7.5 137 140	--	--	6.0 .26 19	--	0 .00	64 1.05	--	3.1 .09	--	.00 --	--	--	54	116A 0.4
05/14/73 0650	5050 5050	29.44 10390	9.0 91	60.8F 16.0C	7.3 128	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
07/18/73 0800	5050 5050	29.32 10050	10.4 90	48.2F 9.0C	8.0 119	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
09/05/73 0740	5050 5050	28.44 7580	11.2 111	59.0F 15.0C	7.4 111	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
A0 2785.00		SACRAMENTO RIVER AT BEND BRIDGE																	
11/24/72 0945	5050 5050	22.13 89	10.0 89	50.0F 10.0C	7.3 139 139	--	--	7.8 .34 26	--	0 .00	68 1.11	--	4.7 .13	--	.00 --	--	--	49	4A 0.5
01/05/73 0915	5050 5050	21.58 13500	11.0 90	43.7F 6.5C	7.8 139	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
03/22/73 1450	5050 5050	21.55 15300	10.4 87	45.5F 7.5C	7.2 125	--	--	--	--	--	--	--	--	--	--	--	--	--	23AF
05/18/73 0800	5050 5050	21.03 12400	10.0 94	54.5F 12.5C	7.4 107 111	--	--	4.8 .21 19	--	0 .00	55 .90	--	2.0 .06	--	.00 --	--	--	46	4A 0.3
07/17/73 0755	5050 5050	21.10 13000	11.1 101	51.8F 11.0C	7.4 112	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
09/20/73 0745	5050 5050	19.81 9590	11.9 110	52.7F 11.5C	7.4 111	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
A0 2905.00		YOLO BYPASS BELOW SACRAMENTO BYPASS																	
11/14/72 1340	5050 5050		10.9 100	53 F 12 C	8.2 600 648	--	--	--	--	--	--	--	--	--	--	--	--	--	50A
A0 2925.00		SACRAMENTO SLOUGH AT SACRAMENTO RIVER																	
10/18/72 1130	5050 5050		7.3 75	62.6F 17.0C	7.4 527	--	--	--	--	--	--	--	--	--	--	--	--	--	23A
04/17/73 1225	5050 5050	17.78 906	8.0 82	62.6F 17.0C	7.7 248 256	--	--	13 .57 22	--	0 .00	132 2.16	--	9.2 .26	--	.00 --	--	--	100	26A 0.6

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				
						MINERAL CONSTITUENTS IN PERCENT RFACTANCE VALUE										MILLIEQUIVALENTS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	TURB SAR	
A0 2926.00 R-D 1500 DRAINAGE TO SACRAMENTO SLOUGH																				
11/14/72	5050	11.81	9.8	51.8F	8.0	70	60	142	3.1	0	397	46	260	1.4	.20	--	761	421	16A	
1240	5050		89	11.0C	7.9	1470	3.49	4.93	6.18	.08	.00	6.51	.96	7.33	.02	--	778	96	3.0	
						24	34	42	1		44	6	49							
A0 2933.00 R-D 108 DRAINAGE TO SACRAMENTO RIVER																				
10/18/72	5050		6.0	62.6F	7.6	977	--	--	134	--	0	339	--	82	--	.90	--	246	40A	
1320	5050		62	17.0C	8.2	1060			5.83		.00	5.56		2.31		--			3.7	
									54											
11/14/72	5050		8.8	50.0F	7.8		--	--	103	--	0	255	--	70	--	.40	--	210	72A	
1505	5050		78	10.0C	7.5	891			4.48		.00	4.18		1.97		--			3.1	
									52											
12/21/72	5050		8.4	52.7F	7.6	1024	--	--	126	--	0	316	--	80	--	.70	--	260	25A	
1400	5050		77	11.5C	7.9	1050			5.48		.00	5.18		2.26		--			3.4	
									51											
03/27/73	5050		7.8	60.8F	8.0	1490	53	60	180	.9	0	410	244	135	4.1	.90	--	922	380	21A
1435	5050		79	16.0C	8.2	1510	2.64	4.93	7.83	.02	.00	6.72	5.08	3.81	.07	--	879	43	4.0	
						17	32	51												
04/17/73	5050		10.0	62.6F	8.1	1140	--	--	136	--	0	334	--	107	--	.60	--	306	23A	
1410	5050		103	17.0C	7.8	1160			5.92		.00	5.47		3.02		--			3.4	
									49											
06/26/73	5050		5.6	80.6F	7.4	565	--	--	59	--	0	188	--	37	--	.20	--	174	19A	
1415	5050	6.0	70	27.0C	7.9	576			2.57		.00	3.08		1.04		--			1.9	
									42											
A0 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING																				
10/18/72	5050	24.52	8.6	63.5F	7.8	737	--	--	--	--	--	--	--	--	--	--	--	--	33A	
1300	5050	362	90	17.5C																
11/14/72	5050	25.08	8.9	50.0F	7.7		--	--	72	--	0	162	--	43	--	.20	--	145	500A	
1430	5050	1300	79	10.0C	7.3	632			3.13		.00	2.66		1.21		--			2.6	
									52											
12/21/72	5050	27.93	8.2	49.1F	7.3	605	--	--	75	--	0	156	--	47	--	.30	--	144	210A	
1330	5050	.0	72	9.5C	7.6	634			3.26		.00	2.56		1.33		--			2.7	
									53											
01/23/73	5050		9.0	45.5F	7.9	305	17	8.4	30	4.2	0	113	34	15	.3	.20	--	188	76	280A
1420	5050	.0	75	7.5C	7.6	314	.85	.69	1.31	.11	.00	1.85	.71	.42	.00	--	165	0	1.5	
						29	23	44	4											
03/27/73	5050	26.52	7.7	59.0F	8.1	881	--	--	94	--	0	285	--	52	--	.20	--	251	60A	
1350	5050	432	76	15.0C	7.9	904			4.09		.00	4.67		1.47		--			2.6	
									45											
05/09/73	5050	24.52	7.7	75.2F	8.0		--	--	87	--	0	210	--	56	--	.20	--	199	62A	
1415	5050	306	91	24.0C	7.9	774			3.78		.00	3.44		1.58		--			2.7	
									49											
A0 2950.00 R-D 787 DRAINAGE TO COLUSA BASIN DRAIN																				
10/18/72	5050	19.20	9.3	64.4F	8.0	651	--	--	70	--	0	324	--	35	--	1.20	--	213	11A	
1230	5050	.0	98	18.0C	8.0	710			3.05		.00	5.31		.99		--			2.1	
									42											
11/14/72	5050	19.00	5.0	51.8F	7.4		39	31	98	3.0	0	271	134	57	1.8	.40	--	498	226	56A
1415	5050	.0	45	11.0C	7.4	866	1.95	2.55	4.26	.08	.00	4.44	2.79	1.61	.03	--	497	3	2.8	
						22	29	48	1		50	31	18							
12/21/72	5050	19.10	9.7	48.2F	7.4	432	--	--	46	--	0	175	--	23	--	.50	--	128	49A	
1310	5050	.0	84	9.0C	7.7	456			2.00		.00	2.87		.65		--			1.8	
									44											
02/22/73	5050	19.50	6.5	57.2F	7.4	705	--	--	52	--	0	354	--	22	--	.80	--	264	22A	
1325	5050		63	14.0C	8.0	710			2.26		.00	5.80		.62		--			1.4	
									30											
03/27/73	5050	19.30	9.3	60.8F	8.0	855	--	--	81	--	0	384	--	44	--	1.30	--	288	26A	
1335	5050	.0	94	16.0C	7.9	884			3.52		.00	6.29		1.24		--			2.1	
									38											
04/17/73	5050	20.00	9.8	66.2F	8.0	732	--	--	80	--	0	341	--	32	--	1.10	--	230	21A	
1315	5050	.0	105	19.0C	8.0	767			3.48		.00	5.59		.90		--			2.3	
									43											
06/26/73	5050	21.10	8.6	84.2F	8.2	850	45	42	83	2.8	0	386	84	47	2.0	1.60	--	518	286	12A
1310	5050	.0	111	29.0C	8.2	883	2.25	3.45	3.61	.07	.00	6.33	1.75	1.33	.03	--	497	0	2.1	
						24	37	38	1		67	19	14							
07/25/73	5050	20.60	9.5	82.4F	8.2	950	46	48	106	2.8	8.0	459	78	53	1.9	1.70	--	576	314	15A
1255	5050	.0	120	28.0C	8.4	976	2.30	3.95	4.61	.07	.27	7.52	1.62	1.49	.03	--	571	0	2.6	
						21	36	42	1	2	69	15	14							
08/14/73	5050	20.90	9.9	78.8F	8.2	1062	52	52	116	3.2	23	485	72	60	2.6	2.00	--	569	342	9A
1230	5050	6.2	121	26.0C	8.6	1050	2.59	4.28	5.05	.08	.77	7.95	1.50	1.69	.04	--	621	0	2.7	
						22	36	42	1	6	67	13	14							
09/26/73	5050	19.10	8.0	62.6F	7.8	760	--	--	82	--	0	310	--	50	--	.80	--	218	48A	
1300	5050	.0	82	17.0C	7.9	778			3.57		.00	5.08		1.41		--			2.4	
									45											
A0 2955.00 R-D 787 DRAINAGE TO SACRAMENTO RIVER																				
10/18/72	5050	19.10	9.6	65.3F	8.0	935	--	--	--	--	--	--	--	--	--	--	--	--	33A	
1345	5050	3.3	102	18.5C																
11/14/72	5050	18.80	8.9	51.8F	7.8		--	--	75	--	0	305	--	63	--	.80	--	287	56A	
1535	5050	13	81	11.0C	7.7	869			3.26		.00	5.00		1.78		--			1.9	
									36											

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE					PERCENT REACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB						
A0 2955.00		R-D 787 DRAINAGE TO SACRAMENTO RIVER										CONTINUED													
12/21/72	5050	17.80	7.6	53.6F	7.4	959	--	--	92	--	0	333	--	76	--	1.30	--			316	74A				
1415	5050	7.2	70	12.0C	7.9	997	--	--	4.00	--	.00	5.46	--	2.14	--	--	--				2.3				
01/23/73	5050	18.60	8.3	51.8F	7.5	688	--	--	57	--	0	276	--	41	6.2	.60	--			248	60A				
1500	5050	47	75	11.0C	8.0	710	--	--	2.48	--	.00	4.52	--	1.16	.10	--	--				1.6				
03/27/73	5050	19.30	9.0	66.2F	7.8	960	--	--	87	--	0	394	--	64	--	.90	--			337	29A				
1500	5050	91	96	19.0C	8.0	994	--	--	3.78	--	.00	6.46	--	1.80	--	--	--				2.1				
04/17/73	5050	20.30	8.1	68.0F	7.9	768	--	--	68	--	0	318	--	47	--	1.00	--			272	12A				
1430	5050	12	89	20.0C	8.0	782	--	--	2.96	--	.00	5.21	--	1.33	--	--	--				1.8				
06/26/73	5050	20.40	4.1	80.6F	7.2	580	--	--	54	--	0	224	--	37	--	.50	--			187	21A				
1435	5050	53	51	27.0C	8.0	590	--	--	2.35	--	.00	3.67	--	1.04	--	--	--				1.7				
09/26/73	5050	18.90	10.8	68.0F	8.0	1130	56	57	114	1.6	1.0	428	142	78	2.0	1.30	--	650	373	18A					
1415	5050	31	118	20.0C	8.3	1130	2.79	4.69	4.96	.04	.03	7.01	2.96	2.20	.03	--	--	663	22	2.6					
A0 2963.00		R-D 1660 DRAINAGE TO TISDALE BYPASS																							
11/14/72	5050	28.10	8.5	51.8F	7.9		46	37	37	--	0	353	29	22	2.3	.00	--	340	267	21A					
1140	5050	.0	77	11.0C	7.9	650	2.30	3.04	1.61	--	.00	5.79	.60	.62	.04	--	--	347	0	1.0					
A0 2965.00		R-D 70 DRAINAGE TO SACRAMENTO RIVER																							
10/18/72	5050	32.40	10.4	62.6F	8.0	238	16	11	18	.8	0	109	9.0	17	1.2	.00	--	146	86	15A					
1030	5050	.0	107	17.0C	7.9	251	.80	.90	.78	.02	.00	1.79	.19	.48	.02	--	--	127	0	0.8					
11/14/72	5050	33.80	10.0	50.0F	8.0		--	--	40	--	0	193	--	49	--	.10	--			159	26A				
1115	5050	38	88	10.0C	7.6	507	--	--	1.74	--	.00	3.16	--	1.38	--	--	--				1.4				
12/21/72	5050	33.90	8.4	51.8F	7.7	977	--	--	--	--	--	--	--	--	--	--	--								
1120	5050	32	76	11.0C			--	--	--	--	--	--	--	--	--	--	--								
02/22/73	5050	33.20	8.4	56.3F	7.8	1085	--	--	74	--	0	386	--	132	--	.10	--			398	22A				
1115	5050	70	80	13.5C	7.9	1090	--	--	3.22	--	.00	6.33	--	3.72	--	--	--				1.6				
03/27/73	5050	33.40	10.5	60.8F	8.0		68	64	83	1.0	0	395	50	172	8.2	.20	--	734	432	11A					
1205	5050	37	106	16.0C	8.1	1240	3.39	5.26	3.61	.03	.00	6.47	1.04	4.85	.13	--	--	641	109	1.7					
04/17/73	5050		8.8	62.6F	8.1	887	--	--	55	--	0	290	--	127	--	.20	--			336	15A				
1100	5050	20	91	17.0C	8.0	899	--	--	2.39	--	.00	4.75	--	3.58	--	--	--				1.3				
06/26/73	5050	34.00	4.9	80.6F	7.5	526	--	--	46	--	0	223	--	49	--	.10	--			179	14A				
1100	5050	36	61	27.0C	8.1	547	--	--	2.00	--	.00	3.65	--	1.38	--	--	--				1.5				
07/25/73	5050	33.20	6.8	78.8F	7.4	573	--	--	54	--	0	236	--	54	--	.20	--			181	9A				
1100	5050	22	83	26.0C	8.1	581	--	--	2.35	--	.00	3.87	--	1.52	--	--	--				1.7				
A0 2967.00		BUTTE SLOUGH AT OUTFALL GATES																							
10/18/72	5050	40.80					246	--	--	--	--	--	--	--	--	--	--				14A				
0950	5050	440																							
11/14/72	5050	44.83					239	--	--	--	--	--	--	--	--	--	--				17AF				
1020	5050	667																							
12/21/72	5050	55.30					175	--	--	--	--	--	--	--	--	--	--				68AF				
1040	5050	.0																							
03/27/73	5050	46.69					241	--	--	--	--	--	--	--	--	--	--				23AF				
1025	5050	298																							
04/17/73	5050	43.28					200	--	--	--	--	--	--	--	--	--	--				39AF				
1015	5050	346																							
05/09/73	5050	40.88					170	--	--	--	--	--	--	--	--	--	--				2AF				
1115	5050	22																							
06/26/73	5050	40.28					320	--	--	--	--	--	--	--	--	--	--				16AF				
1010	5050	106																							
07/25/73	5050	41.49					333	--	--	--	--	--	--	--	--	--	--				17AF				
1015	5050	193																							
08/14/73	5050	40.37					338	--	--	--	--	--	--	--	--	--	--				22AF				
0945	5050	390																							
09/18/73	5050	39.16					317	--	--	--	--	--	--	--	--	--	--				14AF				
1010	5050	402																							

TABLE O-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER								MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
A0 2972.00		BUTTE SLOUGH NEAR MERIDIAN																		
10/18/72	5050	41.43	5.9	62.6F	7.1	266	--	--	16	--	0	148	--	9.4	--	.10	--		100	6A
1015	5050	253	61	17.0C	8.0	269			.70		.00	2.43		.27		--				0.7
11/14/72	5050	43.85	7.7	50.9F	7.2		--	--	14	--	0	122	--	6.3	--	.10	--		87	17A
1050	5050	583	69	10.5C	7.0	239			.61		.00	2.00		.18		--				0.7
12/21/72	5050	48.85	8.9	48.2F	7.1	166	--	--	8.7	--	0	83	--	5.4	--	.10	--		64	55A
1100	5050	3474	77	9.0C	7.4	170			.38		.00	1.36		.15		--				0.5
01/23/73	5050	54.91	11.2	48.2F	7.3	140	--	--	7.3	--	0	67	--	6.6	.7	.00	--		56	90A
1200	5050	33500	97	9.0C	7.7	141			.32		.00	1.10		.19	.01	--				0.4
02/22/73	5050	48.88	8.7	53.6F	7.2	216	--	--	11	--	0	114	--	6.4	--	.10	--		89	34A
1045	5050	3775	81	12.0C	7.7	214			.48		.00	1.87		.18		--				0.5
03/27/73	5050	46.46	7.7	57.2F	7.8	241	--	--	13	--	0	133	--	4.8	--	.00	--		98	19A
1145	5050	1318	75	14.0C	7.6	238			.57		.00	2.18		.14		--				0.6
04/17/73	5050	43.49	8.1	62.6F	7.4	191	--	--	9.2	--	0	107	--	4.6	--	.00	--		79	20A
1030	5050	544	83	17.0C	7.4	189			.40		.00	1.75		.13		--				0.5
05/09/73	5050	42.59	7.0	71.6F	7.4	270	--	--	19	--	0	137	--	9.4	--	.00	--		99	7A
1130	5050	341	80	22.0C	7.5	280			.83		.00	2.25		.27		--				0.8
06/26/73	5050	42.32	6.4	81.5F	8.0	330	--	--	20	--	0	192	--	6.1	--	.00	--		136	10A
1035	5050	297	80	27.5C	8.0	338			.87		.00	3.15		.17		--				0.7
09/26/73	5050	41.57	9.0	66.2F	7.4	319	--	--	19	--	0	194	--	5.0	--	.00	--		131	12A
1050	5050	220	97	19.0C	8.0	314			.83		.00	3.18		.14		--				0.7
A0 2976.00		COLUSA BASIN DRAIN AT HIGHWAY 20																		
10/18/72	5050	39.26	8.0	60.8F	7.6	833	--	--	112	--	0	259	--	68	--	.40	--		215	21A
0815	5050	371	81	16.0C	8.1	899			4.87		.00	4.25		1.92		--				3.3
11/14/72	5050	46.16	9.0	50.0F	7.5		--	--	82	--	0	158	--	47	--	.30	--		135	230A
0930	5050	1862	80	10.0C	7.2	674			3.57		.00	2.59		1.33		--				3.1
12/21/72	5050	43.24	9.8	51.8F	7.6	712	--	--	--	--	--	--	--	--	--	--	--			150AF
0905	5050	1154	89	11.0C																
01/23/73	5050	50.27	8.5	43.7F	7.3	377	--	--	45	--	0	113	--	31	--	.10	--		98	150A
1045	5050	4449	69	6.5C	7.2	397			1.96		.00	1.85		.87		--				2.0
02/22/73	5050	45.00	9.1	53.6F	7.8	715	--	--	--	--	--	--	--	--	--	--	--			180AF
0930	5050	1530	84	12.0C																
03/27/73	5050	40.91	8.0	59.0F	8.1	964	--	--	106	--	0	324	--	61	--	.20	--		283	40A
0945	5050	648	79	15.0C	8.1	997			4.61		.00	5.31		1.72		--				2.7
04/17/73	5050	39.47	8.5	59.0F	8.0	639	--	--	--	--	--	--	--	--	--	--	--			52AF
0930	5050	359	84	15.0C																
05/09/73	5050	40.28	6.7	68.0F	7.6	465	--	--	--	--	--	--	--	--	--	--	--			54AF
1025	5050	504	73	20.0C																
06/26/73	5050	41.38	5.7	78.8F	8.0	514	--	--	--	--	--	--	--	--	--	--	--			21AF
0835	5050	675	70	26.0C																
07/25/73	5050	41.38	7.7	76.1F	7.5	535	--	--	--	--	--	--	--	--	--	--	--			16AF
0910	5050	658	92	24.5C																
08/14/73	5050	42.00	7.9	73.4F	7.4	525	--	--	--	--	--	--	--	--	--	--	--			16AF
0830	5050	795	91	23.0C																
09/26/73	5050	40.29	10.5	60.8F	7.8	562	--	--	--	--	--	--	--	--	--	--	--			30AF
0900	5050	578	106	16.0C																
A0 3220.01		THOMES CREEK AT RICHFIELD																		
04/17/73	5050		10.5	50.0F	7.9	170	--	--	3.6	--	0	90	--	1.8	--	.00	--		78	21A
0815	5050		94	10.0C	7.8	166			.16		.00	1.48		.05		--				0.2
08/13/73	5050		11.9	75.2F	7.0	607	--	--	14	--	0	208	--	6.2	10.0	.10	--		193	185
1405	5050	2E	141	24.0C	8.2	410			1.90		1.81	.61	.03	.00	3.41	.58	.17	.16	222	15
									.44		.42	.14	.1		.79	.13	.4	.4		0.4

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. D DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
A0		3320.00	ELDER CREEK AT GERBER																	
11/22/72 1400	5050 5050	5.82 20E		51.8F 11.0C	409	--	--	--	--	--	--	--	--	--	--	--	--			0AF
12/11/72 1400	5050 5050	5.66 15E		34.7F 1.5C	454	--	--	--	--	--	--	--	--	--	--	--	--			2AF
01/04/73 1400	5050 5050	6.74 25E		41.0F 5.0C	349	--	--	--	--	--	--	--	--	--	--	--	--			1AF
01/19/73 1650	5050 5050	300E		7.9	225 228	--	--	6.8 .30 13	--	0 .00	124 2.03 94	--	3.8 .11 5	1.0 .02 1	.00	--	--	105	110A 0.3	
02/01/73 1400	5050 5050	6.32 80E		49.1F 9.5C	331	--	--	--	--	--	--	--	--	--	--	--	--			5AF
03/21/73 1500	5050 5050	8.19 250E		45.5F 7.5C	244	--	--	--	--	--	--	--	--	--	--	--	--			160AF
04/09/73 1520	5050 5050	6.69 90E		62.6F 17.0C	254	--	--	--	--	--	--	--	--	--	--	--	--			4AF
05/08/73 1250	5050 5050	50E		71.6F 22.0C	245	--	--	--	--	--	--	--	--	--	--	--	--			2AF
06/15/73 1325	5050 5050	5.84 20E		82.4F 28.0C	398	--	--	--	--	--	--	--	--	--	--	--	--			0AF
07/16/73 1250	5050 5050	4E		89.6F 32.0C	435	--	--	--	--	--	--	--	--	--	--	--	--			0AF
A0		3460.00	RED BANK CREEK NEAR RED BLUFF																	
11/22/72 0900	5050 5050	4.55 52		48.2F 9.0C	531	--	--	--	--	--	--	--	--	--	--	--	--			1AF
12/11/72 0915	5050 5050	4.30 6.0		33.8F 1.0C	603	--	--	--	--	--	--	--	--	--	--	--	--			0AF
01/04/73 0845	5050 5050	4.24 52		35.6F 2.0C	512	--	--	--	--	--	--	--	--	--	--	--	--			0AF
02/01/73 0835	5050 5050	4.90 98		40.1F 4.5C	438	--	--	--	--	--	--	--	--	--	--	--	--			3AF
03/22/73 0925	5050 5050	5.06 318		44.6F 7.0C	355	--	--	--	--	--	--	--	--	--	--	--	--			44AF
04/09/73 0935	5050 5050	4.42 44		58.1F 14.5C	536	--	--	--	--	--	--	--	--	--	--	--	--			1AF
05/08/73 0735	5050 5050	4.18 9.0		62.6F 17.0C	500	--	--	--	--	--	--	--	--	--	--	--	--			2AF
A0		3520.50	COTTONWOOD CREEK AT COTTONWOOD																	
10/16/72 0830	5050 5050	9.1 89	57.2F 14.0C	7.4 7.5	327 347	--	--	18 .78 24	--	0 .00	116 1.90	--	32 .90	--	.10	--	--	122	25A 0.7	
11/24/72 1055	5050 5050	11.0 95	47.3F 8.5C	7.4	304	--	--	--	--	--	--	--	--	--	--	--	--			5AF
12/13/72 1310	5050 5050	13.4 99	36.5F 2.5C	7.4 7.8	331 348	--	--	14 .61 18	--	0 .00	145 2.38	--	18 .51	--	.10	--	--	136	1A 0.5	
01/05/73 1045	5050 5050	12.8 93	35.6F 2.0C	7.4	290	--	--	--	--	--	--	--	--	--	--	--	--			2AF
02/02/73 0935	5050 5050	11.5 93	42.8F 6.0C	7.4	268	--	--	--	--	--	--	--	--	--	--	--	--			12AF
03/23/73 0935	5050 5050	10.3 88	46.4F 8.0C	7.8	251	--	--	--	--	--	--	--	--	--	--	--	--			25AF
04/10/73 0945	5050 5050	9.7 93	55.4F 13.0C	7.4	237	--	--	--	--	--	--	--	--	--	--	--	--			7AF
05/18/73 0830	5050 5050	9.0 610	69.8F 21.0C	7.4	179	--	--	--	--	--	--	--	--	--	--	--	--			8AF
06/15/73 0815	5050 5050	225	9.0 96	64.4F 18.0C	7.4 7.6	242 242	--	--	7.4 .32 13	--	0 .00	130 2.13	--	6.2 .17	--	.00	--	110	1A 0.3	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR		
A0		3520.50	COTTONWOOD CREEK AT COTTONWOOD				CONTINUED														
07/17/73	5050		9.0	73.4F	7.2	226	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
0910	5050	93	105	23.0C																	
08/07/73	5050	80	8.2	68.0F	7.1	200	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
0835	5050		91	20.0C																	
09/20/73	5050	92	9.5	61.7F	7.1	166	--	--	6.1	--	0	91	--	3.0	--	.10	--	--	70	1A	
0845	5050		98	16.5C	7.7	165			.27	.00	1.49		.08							0.3	
									16												
A0		3540.00	COTTONWOOD CREEK BELOW NORTH FORK COTTONWOOD CREEK																		
11/24/72	5050	269	11.7	45.5F	7.6	244	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF	
1120	5050		99	7.5C																	
01/05/73	5050	249	13.4	33.8F	7.6	235	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
1115	5050		95	1.0C																	
03/23/73	5050	934	11.8	48.2F	7.9	212	--	--	--	--	--	--	--	--	--	--	--	--	--	21AF	
1015	5050		103	9.0C																	
05/18/73	5050	313	8.7	68.0F	7.8	166	--	--	4.2	--	0	97	--	2.4	--	.00	--	--	78	1A	
0950	5050		97	20.0C	7.5	171			.18	.00	1.59		.07							0.2	
									10												
07/17/73	5050	34	7.6	77.0F	7.6	264	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
0940	5050		93	25.0C																	
09/20/73	5050	16	7.7	66.2F	7.2	327	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
0920	5050		84	19.0C																	
A0		3595.00	COTTONWOOD CREEK, SOUTH FORK, NEAR COTTONWOOD																		
11/24/72	5050	3.55	11.4	46.4F	7.7	398	--	--	20	--	0	154	--	28	--	.10	--	--	161	0A	
1020	5050	66	98	8.0C	7.9	406			.87	.00	2.52		.79							0.7	
									21												
01/05/73	5050	3.58	13.3	33.8F	7.7	293	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF	
1000	5050	118	95	1.0C																	
03/23/73	5050	4.48	10.5	44.6F	7.8	367	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
0900	5050	385	88	7.0C																	
05/18/73	5050	4.43	8.9	64.4F	7.6	153	--	--	5.2	--	0	79	--	4.0	--	.00	--	--	68	17A	
0910	5050	228	95	18.0C	7.4	157			.23	.00	1.29		.11							0.3	
									14												
07/17/73	5050	3.27	8.7	77.0F	8.0	282	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
0840	5050	7.0	106	25.0C																	
A0		4321.01	DEER CREEK AT HIGHWAY 99E																		
10/12/72	5050		10.4	59.0F	8.0	162	--	--	12	--	0	82	--	8.1	--	.20	--	--	53	3A	
1130	5050	186	103	15.0C	7.8	159			.52	.00	1.34		.23							0.7	
									33												
11/22/72	5050		11.4	49.1F	7.6	138	--	--	8.7	--	0	77	--	4.2	--	.10	--	--	50	0A	
1315	5050	179	100	9.5C	7.6	140			.38	.00	1.26		.12							0.5	
									28												
12/11/72	5050		13.7	33.8F	7.5	163	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
1300	5050	105	96	1.0C																	
01/04/73	5050		13.0	39.2F	7.5	139	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
1315	5050	164	99	4.0C																	
02/01/73	5050		11.7	44.6F	7.3	108	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
1235	5050	386	97	7.0C																	
03/21/73	5050		11.5	45.5F	7.9	98	--	--	5.3	--	0	57	--	2.1	--	.00	--	--	40	1A	
1400	5050	549	96	7.5C	7.6	101			.23	.00	.93		.06							0.4	
									22												
04/09/73	5050		9.8	57.2F	7.6	88	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
1420	5050	484	95	14.0C																	
05/08/73	5050		9.8	61.7F	7.4	79	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
1200	5050	462	101	16.5C																	
06/15/73	5050		9.9	75.2F	8.0	140	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
1225	5050	166	117	24.0C																	
07/16/73	5050		15.7	82.4F	8.1	162	--	--	12	3.3	0	152	6.6	6.0	1.7	.10	--	172	113	0A	
1200	5050	115	200	28.0C	8.0	264	.75	1.56	.52	.08	.00	2.49	.14	.17	.03	--	--	138	0	0.5	
							26	54	18	3		88	5	6	1						
08/07/73	5050		14.6	86.0F	8.3	265	--	--	13	--	0	157	--	5.1	--	.20	--	--	115	0A	
1145	5050	100	192	30.0C	8.1	270			.57	.00	2.57		.14							0.5	
									20												
09/17/73	5050		17.8	77.0F	8.1	260	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
1105	5050		215	25.0C																	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER				TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM			
																			B	F	
A0		4420.50	MILL CREEK NEAR MOUTH NEAR LOS MOLINOS																		
10/12/72 1200	5050					214	--	--	--	--	--	--	--	--	--	--	--	--	20A		
11/22/72 1330	5050 5050		11.8 106	50.0F 10.0C	7.9	176	--	--	--	--	--	--	--	--	--	--	--	--	0AF		
12/11/72 1330	5050 5050					200	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
01/04/73 1330	5050 5050	160	13.2 103	40.1F 4.5C	7.7	166	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
02/01/73 1305	5050 5050					134	--	--	--	--	--	--	--	--	--	--	--	--	0AF		
03/21/73 1430	5050 5050	314	11.2 94	45.5F 7.5C	7.8 7.5	133 139	--	--	10 .44 35	--	0 .00	52 .85	--	10 .28	--	.30	--	41	0A 0.7		
04/09/73 1445	5050 5050					126	--	--	--	--	--	--	--	--	--	--	--	--	2AF		
05/08/73 1225	5050 5050	467	10.0 102	60.8F 16.0C	7.3 7.3	100 104	--	--	7.4 .32 35	--	0 .00	35 .57	--	6.4 .18	--	.10	--	30	1A 0.6		
06/15/73 1310	5050 5050					124	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
07/16/73 1225	5050 5050	148	11.7 143	77.9F 25.5C	8.8	167	--	--	--	--	--	--	--	--	--	--	--	--	0AF		
08/07/73 1130	5050 5050					227	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
09/17/73 1240	5050 5050	104E	14.2 160	69.8F 21.0C	8.2	226	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
A0		4520.50	ANTELOPE CREEK NEAR MOUTH NEAR RED BLUFF																		
10/12/72 1200	5050 5050		9.3 92	59.0F 15.0C	7.4 7.5	231 229	--	--	16 .70 31	--	0 .00	98 1.61	--	7.5 .21	--	.50	--	77	3A 0.8		
12/11/72 1340						233	--	--	--	--	--	--	--	--	--	--	--	--	1AF		
04/09/73 1500	5050 5050					134	--	--	--	--	--	--	--	--	--	--	--	--	2AF		
06/15/73 1300	5050 5050					124	--	--	--	--	--	--	--	--	--	--	--	--	4AF		
08/07/73 1115	5050 5050					225	--	--	--	--	--	--	--	--	--	--	--	--	2AF		
A0		5103.00	FEATHER RIVER AT NICOLAUS																		
10/18/72 0930	5050 5050	24.63	10.3 101	58 F 14 C	7.3	85 86	--	--	--	--	--	--	--	--	--	--	--	--	3A		
11/14/72 1030	5050 5050	24.45	11.2 100	51 F 11 C	7.2 7.6	95 94	--	--	--	--	--	--	--	--	--	--	--	--	5A		
12/20/72 0950	5050 5050	20.48	9.2 80	49 F 9 C	7.1	100 101	--	--	--	--	--	--	--	--	--	--	--	--	24A		
01/17/73 0910	5050 5050	42.30	10.7 92	48 F 9 C	7.0	70 69	--	--	--	--	--	--	--	--	--	--	--	--	75A		
02/21/73 0930	5050 5050	34.06	11.1 97	49 F 9 C	7.1	92 93	--	--	--	--	--	--	--	--	--	--	--	--	14A		
03/21/73 0830	5050 5050	26.44	11.1 96	48 F 9 C	7.3	95 98	--	--	--	--	--	--	--	--	--	--	--	--	7A		
04/18/73 0915	5050 5050	24.51	10.6 101	56.0F 13.3C	7.3	89 94	--	--	--	--	--	--	--	--	--	--	--	--	12A		
05/16/73 0830	5050 5050	22.56	9.7 109	71.0F 21.6C	7.5	100 105	--	--	--	--	--	--	--	--	--	--	--	--	4A		
06/20/73 1145	5050 5050	22.31	9.1 111	79 F 26 C	7.6	81 87	--	--	--	--	--	--	--	--	--	--	--	--	4A		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE					B	F	TDS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT	REACTANCE	VALUE	NO3	NO3	NO3					
A0		5103.00	FEATHER RIVER AT NICOLAUS				CONTINUED																		
07/18/73	5050	23.33	9.5	71	F	7.4	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7A	
	0850		107	22	C		79																		
08/15/73	5050	24.22	8.5	70	F	7.4	81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2A	
	0800		95	21	C																				
09/19/73	5050	24.21	9.4	64	F	7.3	73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3A	
	0800		98	18	C		83																		
A0		6120.00	YUBA RIVER AT MARYSVILLE																						
10/03/72	5050		11.3	51	F	7.2	76	9.0	4.5	2.7	--	0	42	--	.8	--	--	--	--	--	--	--	41	1A	
	0900		101	11	C	7.1	85	.45	.37	.12		.00	.69		.02								7	0.2	
								.48	.39	.13															
03/02/73	5050		12.8	47	F	7.2	71	7.2	3.2	2.5	--	0	36	--	2.8	--	--	--	--	--	--	--	31	15A	
	1130		109	8	C	7.5	74	.36	.26	.11		.00	.59		.08							2	0.2		
								.49	.36	.15															
09/11/73	5050		10.8	62	F	7.3	66	7.8	2.8	2.4	--	0	37	--	1.1	--	--	--	--	--	--	46	31	0A	
	1200		111	17	C	7.3	72	.39	.23	.10		.00	.61		.03							1	0.2		
								.54	.32	.14															
A0		6550.00	BEAR RIVER NEAR WHEATLAND																						
12/04/72	5050		12.0	46	F	7.3	112	10	5.8	3.5	--	0	48	--	2.9	--	--	--	--	--	--	--	49	3A	
	0930		101	8	C	7.5	115	.50	.48	.15		.00	.79		.08							10	0.2		
								.44	.42	.13															
02/01/73	5050	8.03	12.1	46	F	7.1	70	6.3	3.0	2.8	--	0	29	--	4.6	--	--	--	--	--	--	--	28	25A	
	1000		102	8	C	7.2	71	.31	.25	.12		.00	.48		.13							4	0.2		
								.46	.37	.18															
06/12/73	5050	4.02	11.0	68	F	7.6	140	14	8.5	4.5	--	0	66	--	6.0	--	--	--	--	--	--	--	70	1A	
	0845		121	20	C	7.8	156	.70	.70	.20		.00	1.08		.17							16	0.2		
								.44	.44	.13															
09/11/73	5050	4.10	7.9	68	F	7.3	103	9.8	6.4	4.2	--	0	52	--	4.4	--	--	--	--	--	--	75	51	1A	
	0940		87	20	C	7.5	118	.49	.53	.18		.00	.85		.12							9	0.3		
								.41	.44	.15															
A0		7140.10	AMERICAN RIVER AT SACRAMENTO WATER PLANT																						
03/15/73	5050		12.4	52	F	7.3	68	6.3	3.0	2.8	--	0	32	--	3.8	--	--	--	--	--	--	--	28	3A	
	1400		112	11	C	7.4	72	.31	.25	.12		.00	.52		.11							2	0.2		
								.46	.37	.18															
09/11/73	5050		8.8	62	F	7.1	56	4.8	2.4	3.9	--	0	28	--	3.1	--	--	--	--	--	--	41	22	1A	
	0810		90	17	C	7.2	60	.24	.20	.17		.00	.46		.09							0	0.4		
								.39	.33	.28															
A1		1020.00	PIT RIVER NEAR MONTGOMERY CREEK																						
11/02/72	5050		10.6	50.0F	7.5	148	--	--	10	--	0	85	--	3.9	--	.00	--	--	--	--	--	--	54	1A	
	1045		97	10.0C	7.7	151			.44		.00	1.39		.11										0.6	
									.29																
01/23/73	5050		12.7	40.1F	7.2	110	--	--	6.6	--	0	61	--	4.2	--	.00	--	--	--	--	--	--	47	30A	
	1130		101	4.5C	7.7	112			.29		.00	1.00		.12										0.4	
									.24																
03/14/73	5050		10.5	46.4F	7.1		--	--	7.6	--	0	68	--	1.7	--	.00	--	--	--	--	--	--	45	6A	
	1040		91	8.0C	7.4	122			.33		.00	1.11		.05										0.5	
									.27																
05/15/73	5050		10.3	59.0F	8.0	126	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8AF	
	1025		105	15.0C																					
07/19/73	5050		10.1	66.2F	8.2	137	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
	1320		112	19.0C																					
09/06/73	5050		11.0	60.8F	8.0	134	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
	1130		115	16.0C																					
A1		1680.00	PIT RIVER NEAR CANBY																						
10/11/72	5050		2.69	8.3	52	F	7.5	317	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30A	
	0830		85	87	11	C																			
11/02/72	5050		2.70	11.0	37.4F	8.0	288	--	--	33	--	0	157	--	8.2	--	.20	--	--	--	--	--	86	11A	
	0815		87	94	3.0C	7.9	296			1.44		.00	2.57		.23									1.5	
										.46															
12/14/72	5050		2.61		32.0F	7.6	288	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12AF	
	0830		51		0.0C																				
01/23/73	5050		2.66	11.7	32.0F	7.5	253	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65AF	
	0845		128	92	0.0C																				
02/20/73	5050		3.09	10.8	42.8F	7.7	241	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28AF	
	1530		228	100	6.0C																				
03/14/73	5050		3.41	9.3	39.2F	7.5		--	--	20	--	0	107	--	4.7	--	.00	--	--	--	--	--	66	38A	
	1305		365	82	4.0C	7.5	213			.87		.00	1.75		.13									1.1	
										.40															
04/12/73	5050		3.49	8.1	50.9F	7.6	140	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75AF	
	0845		405	84	10.5C																				

TABLE 0-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						PERCENT REFRACTANCE VALUE										MILLIEQUIVALENTS PER LITER					B	F	TDS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REFRACTANCE VALUE	PERCENT REFRACTANCE VALUE	PERCENT REFRACTANCE VALUE	PERCENT REFRACTANCE VALUE	PERCENT REFRACTANCE VALUE	PERCENT REFRACTANCE VALUE					
A1		1680.00	PIT RIVER NEAR CANBY				CONTINUED																		
05/15/73	5050	3.59	7.5	61.7F	7.4	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32AF	
	5050	440	89	16.5C																					
06/13/73	5050	2.60	7.9	68.0F	8.0	239	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28AF	
	5050	66	100	20.0C																					
07/19/73	5050	2.32	9.7	70.7F	8.8	252	--	--	23	--	1.0	138	--	3.3	--	.10	--	--	--	--	--	--	82	33A	
	5050	14	127	21.5C	8.3	257			1.00		.03	2.26		.09										1.1	
08/09/73	5050	2.39	7.8	65.3F	8.0	262	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21AF	
	5050	27	96	18.5C																					
09/06/73	5050	2.57	9.4	60.8F	8.0	223	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28AF	
	5050	60	110	16.0C																					
A1		4400.00	PIT RIVER, SOUTH FORK, NEAR LIKELY																						
10/11/72	5050	2.15	9.8	45.5F	8.0	103	--	--	5.1	--	0	61	--	1.2	--	.00	--	--	--	--	--	--	39	1A	
	5050	38	95	7.5C	7.4	104			.22		.00	1.00		.03										0.4	
									22																
06/13/73	5050	2.69	8.4	60.8F	8.1	105	--	--	5.4	--	0	63	--	.0	--	.00	--	--	--	--	--	--	40	7A	
	5050	110	99	16.0C	7.4	105			.23		.00	1.03		.00										0.4	
									22																
A2		1010.00	SACRAMENTO RIVER AT KESWICK																						
10/16/72	5050	10.1	52	F	7.2	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3A	
		6000	93	11	C																				
11/13/72	5050	8.6	51.8F	7.2			--	--	5.4	--	0	60	--	1.0	--	.00	--	--	--	--	--	--	42	4A	
	5050	6000	79	11.0C	7.2	124			.23		.00	.98		.03										0.4	
									21																
12/13/72	5050	9.0	50	F	7.1	122	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5050	7500	81	10	C																				
03/23/73	5050	11.7	45.5F	7.0	87		--	--	3.9	--	0	41	--	.0	--	.00	--	--	--	--	--	38	5A		
	5050	5000	99	7.5C	7.1	92			.17		.00	.67		.00										0.3	
									18																
07/17/73	5050	11.1	50.0F	7.3			--	--	4.1	--	0	55	--	3.6	--	.00	--	--	--	--	--	43	1A		
	5050	12500	100	10.0C	7.7	104			.18		.00	.90		.10										0.3	
									17																
A2		1300.00	SACRAMENTO RIVER AT DELTA																						
11/02/72	5050	3.66	11.8	50.0F	8.1	153	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
	5050	207	108	10.0C																					
01/23/73	5050	6.28	12.4	41.0F	7.2	82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
	5050	1800	100	5.0C																					
03/13/73	5050	6.29	11.0	42.8F	7.3	81	--	--	3.2	--	0	44	--	1.6	--	.00	--	--	--	--	--	35	2500		
	5050	1810	91	6.0C	7.4	81			.14		.00	.72		.05										0.2	
									17																
05/15/73	5050	7.33	10.4	53.6F	7.5	72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21AF	
	5050	2880	100	12.0C																					
07/02/73	5050	3.96	9.5	60.8F	7.7	118	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
	5050	308	99	16.0C																					
09/06/73	5050	3.56	11.5	65.3F	8.3	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
	5050	199	126	18.5C																					
A2		2150.00	MCCLLOUD RIVER ABOVE SHASTA LAKE																						
11/02/72	5050	12.0	47.3F	7.9	109		--	--	5.4	--	0	62	--	1.6	--	.00	--	--	--	--	--	43	0A		
	5050	318	106	8.5C	7.7	111			.23		.00	1.02		.05										0.4	
									21																
01/23/73	5050	12.3	41.9F	7.3	91		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
	5050	1230	101	5.5C																					
03/13/73	5050	10.5	44.6F	7.4			--	--	3.2	--	0	56	--	.0	--	.00	--	--	--	--	--	46	0A		
	5050	1240	89	7.0C	7.6	102			.14		.00	.92		.00										0.2	
									13																
05/15/73	5050	9.7	59.0F	7.5	112		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
	5050		99	15.0C																					
07/02/73	5050	7.8	57.2F	7.3	108		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
	5050		78	14.0C																					
09/06/73	5050	12.1	61.7F	8.1	108		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
	5050		128	16.5C																					

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB 5AR	
A3		1110.00	STONY CREEK BELOW BLACK BUTTE DAM																	
10/12/72 1000	5050 5050					342	--	--	--	--	--	--	--	--	--	--	--			43AF
11/22/72 1145	5050 5050	2.42 34	12.0 107	50.0F 10.0C	8.1 7.9	342 362	--	--	17 .74 21	--	0 .00	146 2.39	--	26 .73	--	.20	--		138	14A 0.6
12/11/72 1150	5050 5050	2.37 30		41.0F 5.0C		372	--	--	--	--	--	--	--	--	--	--	--			14AF
01/04/73 1145	5050 5050	4.56 515	13.0 105	42.8F 6.0C	7.7 7.7	327 324	--	--	17 .74 22	--	0 .00	127 2.08 73	--	27 .76 27	1.2 .02 1	.10	--		132	37A 0.6
02/01/73 1130	5050 5050	2.50 44		44.6F 7.0C		296	--	--	--	--	--	--	--	--	--	--	--			62AF
03/22/73 1230	5050 5050	5.38 1060	11.0 98	50.0F 10.0C	7.8	288	--	--	--	--	--	--	--	--	--	--	--			39AF
04/09/73 1330	5050 5050	2.45 40		59.0F 15.0C		301	--	--	--	--	--	--	--	--	--	--	--			5AF
05/08/73 1045	5050 5050	5.19 873	11.9 120	59.5F 15.3C	8.0	311	--	--	--	--	--	--	--	--	--	--	--			4AF
06/15/73 1130	5050 5050	3.63 207		74.3F 23.5C		325	--	--	--	--	--	--	--	--	--	--	--			52AF
07/16/73 1035	5050 5050	3.79 249	9.6 112	73.4F 23.0C	7.9	333	--	--	--	--	--	--	--	--	--	--	--			25AF
08/13/73 1330	5050 5050	3.81 257		78.8F 26.0C		312	--	--	--	--	--	--	--	--	--	--	--			28AF
09/17/73 1110	5050 5050	3.38 153	12.1 139	71.6F 22.0C	8.1	364	--	--	--	--	--	--	--	--	--	--	--			28AF
A3		1250.00	STONY CREEK NEAR FRUTO																	
10/12/72 0900	5050 5050		9.4 98	61.7F 16.5C	8.0 7.9	426 445	--	--	19 .83 19	--	0 .00	151 2.47	--	26 .73	--	.20	--		181	0A 0.6
11/22/72 1100	5050 5050		11.0 102	48.2F 9.0C	7.9	384	--	--	--	--	--	--	--	--	--	--	--			1AF
12/11/72 1100	5050 5050		13.6 69	32.9F 0.5C	7.8 7.9	482 505	--	--	26 1.13 24	--	0 .00	148 2.43	--	52 1.47	--	.10	--		180	1A 0.8
01/04/73 1100	5050 5050		13.2 154	36.0F 2.2C	7.3	292	--	--	--	--	--	--	--	--	--	--	--			6AF
02/01/73 1040	5050 5050		12.0 1630	41.9F 5.5C	7.6	247	--	--	--	--	--	--	--	--	--	--	--			65AF
03/22/73 1140	5050 5050		10.7 1910	48.2F 9.0C	8.1	315	--	--	--	--	--	--	--	--	--	--	--			17AF
04/09/73 1145	5050 5050		10.0 1030	52.7F 11.5C	7.8	239	--	--	--	--	--	--	--	--	--	--	--			14AF
05/08/73 0955	5050 5050		10.0 218	57.2F 14.0C	8.0	233	--	--	--	--	--	--	--	--	--	--	--			3AF
06/15/73 1040	5050 5050		10.0 107	64.4F 18.0C	8.2	318	--	--	--	--	--	--	--	--	--	--	--			24AF
06/15/73 1041	5050 5050		10.0 518	64.4F 18.0C	8.2 7.9	318 314	--	--	13 .57 17	--	0 .00	156 2.56	--	11 .31	--	.10	--		139	18A 0.5
07/16/73 0930	5050 5050		9.4 327	72.5F 22.5C	8.2 8.0	351	--	--	14 .61 17	--	0 .00	178 2.92	--	12 .34	--	.20	--		152	39A 0.5
08/13/73 1240	5050 5050		9.9 320	81.5F 27.5C	8.6	341	--	--	--	--	--	--	--	--	--	--	--			10AF
09/17/73 1020	5050 5050		10.3 400	69.8F 21.0C	8.1	384	--	--	--	--	--	--	--	--	--	--	--			38AF

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						PERCENT REACTANCE VALUE										MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	TURB SAR						
A3		1302.00		GRINDSTONE CREEK NEAR ELK CREEK																					
11/22/72 1030	5050 5050	10.57 300E	11.4 98	46.4F 8.0C	8.1 292	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF						
01/04/73 1030	5050 5050	10.70 2000E	13.3 98	35.6F 2.0C	7.6 206	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
03/22/73 1115	5050 5050	9.83 350E	11.0 92	44.6F 7.0C	8.1 299	--	--	--	--	--	--	--	--	--	--	--	--	--	19AF						
05/08/73 0930	5050 5050	9.33 200E	10.0 97	55.4F 13.0C	7.6 190 7.8 192	--	--	6.8 .30 15	--	0 .00	86 1.41	--	3.5 .10	--	.00	--	--	85	2A 0.3						
07/16/73 0905	5050 5050	25E	11.1 136	77.0F 25.0C	8.3 341	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF						
09/17/73 1000	5050 5050	6E	12.0 142	73.4F 23.0C	8.1 421 7.9 435	--	--	17 .74 16	--	0 .00	147 2.41	--	21 .59	--	.20	--	--	189	0A 0.5						
A3		2120.00		THOMES CREEK AT PASKENTA																					
10/12/72 0800	5050 5050	3.66 44	9.4 95	59.0F 15.0C	8.0 386 7.8 407	--	--	15 .65 17	--	0 .00	134 2.20	--	23 .65	--	.20	--	--	163	19A 0.5						
11/22/72 0930	5050 5050	4.17 142	12.2 101	43.7F 6.5C	7.8 229 7.8 238	--	--	6.5 .28 12	--	0 .00	107 1.75	--	6.4 .18	--	.10	--	--	101	5A 0.3						
12/11/72 1010	5050 5050	3.65 76	13.6 95	32.0F 0.0C	7.8 220	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
01/04/73 0945	5050 5050	4.28 220	13.0 96	35.6F 2.0C	7.6 176	--	--	--	--	--	--	--	--	--	--	--	--	--	4AF						
02/01/73 0930	5050 5050	4.82 334	12.5 97	39.2F 4.0C	7.7 216 7.7 219	--	--	4.8 .21 10	--	0 .00	107 1.75	--	3.2 .09	--	.00	--	--	99	8A 0.2						
03/22/73 1015	5050 5050	5.12 470	11.5 96	43.7F 6.5C	7.8 228	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF						
04/09/73 1050	5050 5050	5.73 841	10.8 94	46.9F 8.3C	7.6 130	--	--	--	--	--	--	--	--	--	--	--	--	--	31AF						
05/08/73 0830	5050 5050	4.84 465	10.8 99	50.9F 10.5C	7.8 129	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
06/15/73 0945	5050 5050	3.42 68	9.4 99	62.6F 17.0C	8.0 243	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF						
07/16/73 0815	5050 5050	2.85 16	9.0 109	75.2F 24.0C	8.2 290	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF						
08/13/73 1145	5050 5050	2.65 7.2	10.3 139	86.9F 30.5C	8.3 330	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF						
09/17/73 0910	5050 5050	2.59 5.0	10.9 120	66.2F 19.0C	8.2 376	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF						
A3		3110.00		ELDER CREEK NEAR PASKENTA																					
04/09/73 1005	5050 5050	2.50 220	10.1 89	48.2F 9.0C	8.0 226	--	--	5.4 .23 10	--	0 .00	125 2.05	--	5.1 .14	--	.00	--	--	107	4A 0.2						
A3		6130.00		CLEAR CREEK NEAR IGD																					
04/10/73 1030	5050 5050	2.68 93	10.2 94	51.8F 11.0C	7.3 84	--	--	4.2 .18 22	--	0 .00	42 .69	--	3.0 .08	--	.00	--	--	32	0A 0.3						
09/20/73 0955	5050 5050	2.36 47	12.2 121	57.2F 14.0C	7.6 103 7.4 105	--	--	4.1 .18 15	--	0 .00	48 .79	--	7.7 .22	--	.10	--	--	50	0A 0.3						
A4		1110.00		BUTTE CREEK NEAR CHICO																					
11/01/72 0900	5050 5050	1.41 144	12.3 101	43.7F 6.5C	7.3 114 7.5 116	--	--	3.7 .16 14	--	0 .00	68 1.11	--	1.5 .04	--	.00	--	--	49	0A 0.2						
01/22/73 1000	5050 5050	2.80 920	12.5 99	41.0F 5.0C	7.2 73	--	--	--	--	--	--	--	--	--	--	--	--	--	5AF						
03/21/73 1030	5050 5050	2.76 884	11.2 91	42.8F 6.0C	7.2 77	--	--	--	--	--	--	--	--	--	--	--	--	--	4AF						
05/14/73 0815	5050 5050	2.50 660	10.0 96	55.4F 13.0C	7.4 61	--	--	--	--	--	--	--	--	--	--	--	--	--	4AF						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER								
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB						
A4		1110.00		BUTTE CREEK NEAR CHICO						CONTINUED															
07/18/73	5050	1.59	10.0	65.3F	7.8	97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF
0915	5050	186	107	18.5C																					
09/05/73	5050	1.46	11.5	59.9F	7.8	112	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF
0930	5050	131	116	15.5C																					
A4		2110.00		BIG CHICO CREEK NEAR CHICO																					
11/01/72	5050	2.07	11.8	47.3F	7.6	217	--	--	15	--	0	110	--	12	--	.20	--	--	--	--	--	--	--	76	0A
0815	5050	27	102	8.5C	7.7	220			.65		.00	1.80		.34											0.7
01/22/73	5050	3.83	12.7	41.9F	7.2	76	--	--	4.0	--	0	45	--	4.7	--	.00	--	--	--	--	--	--	--	34	1A
0925	5050	396	101	5.5C	7.3	84			.17		.00	.74		.13											0.3
03/21/73	5050	3.84	11.3	44.6F	7.3	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5AF
1115	5050	399	94	7.0C																					
05/14/73	5050	2.26	9.2	64.4F	7.8	158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
0740	5050	54	98	18.0C																					
07/18/73	5050	2.01	9.1	71.6F	8.1	204	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF
0835	5050	27	104	22.0C																					
09/05/73	5050	2.10	11.1	64.4F	8.0	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF
0850	5050	27	118	18.9C																					
A4		5110.50		ANTELOPE CREEK NEAR RED BLUFF																					
10/12/72	5050		11.2	59.0F	8.1	150	--	--	8.7	--	0	81	--	6.0	--	.10	--	--	--	--	--	--	--	60	1A
1230	5050	107	112	15.0C	7.5	152			.38		.00	1.33		.17											0.5
02/01/73	5050		12.0	44.6F	7.2	87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
1430	5050	241	100	7.0C																					
A4		6050.01		PAYNES CREEK NEAR RED BLUFF																					
10/12/72	5050					270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
1315	5050	20																							
11/22/72	5050					185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF
1430	5050	40																							
12/11/72	5050					225	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF
1435	5050	35																							
01/04/73	5050					191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
1430	5050	35																							
02/01/73	5050			48.2F		110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5AF
1500	5050	60		9.0C																					
03/22/73	5050			53.6F		109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3AF
1415	5050	70		12.0C																					
04/10/73	5050			57.2F		155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
0850	5050	40		14.0C																					
05/08/73	5050			66.2F		170	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
1330	5050	35E		19.0C																					
06/11/73	5050			62.6F		191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
0830	5050	30E		17.0C																					
07/16/73	5050			71.6F		191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0AF
1340	5050	25E		22.0C																					
08/07/73	5050			68.0F		211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF
1045	5050	20E		20.0C																					
09/17/73	5050			67.1F		216	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
1320	5050	20E		19.5C																					
A4		7110.00		BATTLE CREEK NEAR COTTONWOOD																					
10/16/72	5050	2.37	10.0	53.6F	7.2	123	--	--	7.3	--	0	65	--	3.2	--	.10	--	--	--	--	--	--	--	44	5A
0900	5050	502	92	12.0C	7.7	121			.32		.00	1.07		.09											0.5
02/02/73	5050	2.47	11.6	46.4F	7.4	118	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF
1015	5050	546	98	8.0C																					

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				
						MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
A4 8110.00 COW CREEK NEAR HILLVILLE																				
11/24/72	5050	3.36		46.4F	154	--	--	--	--	--	--	--	--	--	--	--			1AF	
	5050	251		8.0C																
01/05/73	5050	3.36		36.5F	143	--	--	--	--	--	--	--	--	--	--	--			14AF	
	5050	347		2.5C																
03/23/73	5050	4.92		46.4F	108	--	--	--	--	--	--	--	--	--	--	--			8AF	
	5050	1480		8.0C																
05/18/73	5050	3.48	8.7	72.5F	7.3	82	--	--	3.5	--	0	47	--	1.2	--	.00	--		35	3A
	5050	470	101	22.5C	7.5	86			.15		.00	.77		.03		--				0.3
									18											
07/17/73	5050	2.07		89.6F	155	--	--	--	--	--	--	--	--	--	--	--			2AF	
	5050	52		32.0C																
09/20/73	5050	2.50	11.2	70.7F	7.7	174	--	--	--	--	--	--	--	--	--	--			5AF	
	5050	122	128	21.5C																
A5 L 010.7 105.1 LAKE ALMANOR AT INTAKE TOWER NEAR DAM																				
10/25/72	5050	90.10	7.1	55.1F	7.3	100	--	--	--	--	--	--	--	--	--	--				
			78	12.8C																
		1																		
10/25/72	5050	90.10	7.3	52.4F	7.3	100	10	3.9	3.9	1.4	0	59	.0	.0	.0	.00	--	52	41	
	5050		78	11.3C	7.2	100	.50	.32	.17	.04	.00	.97	.00	.00	.00		--	48	0	
		45					49	31	17	4		100								
10/25/72	5050	90.10	0.1	52.1F	6.9		--	--	--	--	--	--	--	--	--	--				
			1	11.2C																
		80																		
04/17/73	5050		10.6	46.5F	7.4	94	--	--	--	--	0	59	--	--	--	--			40	6A
	5050		105	8.0C	7.4	98					.00	.97								
		7																		
04/17/73	5050		9.6	41.9F	7.2	94	--	--	--	--	0	59	--	--	--	--			40	8A
	5050		89	5.5C	7.4	106					.00	.97								
		42																		
A5 L 013.1 107.9 LAKE ALMANOR NEAR BUNNEL POINT																				
05/22/73	5073		8.6	62.1F	7.6		--	--	--	--	0	53	--	--	--	--				
	5050		103	16.7C	7.3	90					.00	.87								
		16																		
A5 L 014.3 106.5 LAKE ALMANOR, EAST ARM, CENTER																				
04/17/73	5050		10.7	44.4F		94	--	--	--	--	0	60	--	--	--	--			41	6A
	5050		102	6.9C	7.3	98					.00	.98								
		COM																		
04/17/73	5050		10.6	44.2F		94	8.1	4.9	3.7	1.2	0	59	.8	.1	.2	.10	--	76	40	6A
	5050		101	6.8C	7.5	99	.40	.40	.16	.03	.00	.97	.02	.00	.00		--	48	0	
		25					40	40	16	3		98	2						0.3	
04/17/73	5050			42.5F		94	--	--	--	--	0	59	--	--	--	--			40	6A
	5050			5.8C	7.3	99					.00	.97								
		44																		
05/22/73	5073				7.4	95	--	--	--	--	0	57	--	--	--	--				
	5050										.00	.93								
		COM																		
A5 L 014.9 106.4 LAKE ALMANOR, EAST ARM, NEAR PRATTVILLE																				
10/25/72	5050	90.10	8.1	55.5F	7.3	105	--	--	--	--	0	59	--	--	--	--			40	2A
	5050		90	13.0C	7.4	96					.00	.97								
		25																		
10/25/72	5050	90.10	7.9	55.1F	7.3	105	--	--	--	--	--	--	--	--	--	--				
			87	12.8C																
		50																		
A5 L 015.5 105.0 LAKE ALMANOR NEAR LASSEN VIEW																				
10/25/72	5050	90.10	7.9	55.4F	7.5	105	--	--	--	--	0	58	--	--	--	--			40	1A
	5050		87	13.0C	7.1	101					.00	.95								
		12																		
A5 L 015.5 111.1 LAKE ALMANOR, WEST ARM, CENTER																				
04/17/73	5050		10.9	41.2F	7.3	89	--	--	--	--	0	55	--	--	--	--			38	5A
	5050		100	5.1C	7.3	94					.00	.90								
		COM																		
04/17/73	5050		10.9	41.0F	7.3	89	8.1	3.9	3.7	1.2	0	54	.6	.4	.1	.00	--	56	36	4A
	5050		99	5.0C	7.5	93	.40	.32	.16	.03	.00	.89	.01	.01	.00		--	45	0	
		18					44	35	18	3		98	1	1					0.3	
04/17/73	5050		10.9	41.0F	7.3	90	--	--	--	--	0	55	--	--	--	--			38	5A
	5050		99	5.0C	7.4	93					.00	.90								
		28																		
05/22/73	5073		7.8	51.1F	7.3		--	--	--	--	0	58	--	--	--	--				
	5050		82	10.6C	7.6	95					.00	.95								
		36																		
05/22/73	5073				7.4	92	--	--	--	--	0	55	--	--	--	--				
	5050										.00	.90								
		COM																		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TDS SUM	TH NCH	TURB SAR
		A5 L 015.9 111.3		LAKE ALMANOR, UPPER WEST ARM, NEAR CHESTER																
10/25/72 1340	5050 5050	90.10	9.1 100	55.1F 12.8C	7.5 7.2	105 97	--	--	--	--	0 .00	60 .98	--	--	--	--	--	41	1A	
		1																		
10/25/72 1350	5050	90.10	8.8 95	53.6F 12.0C	7.5		--	--	--	--	--	--	--	--	--	--	--			
		30																		
		A5 L 017.0 112.2		LAKE ALMANOR, WEST ARM, WEST SHORE																
10/25/72 1311	5050	90.10	11.6 123	51.8F 11.0C	7.3	100	--	--	--	--	--	--	--	--	--	--	--			
		2																		
05/22/73 1200	5073 5050		8.5 97	58.2F 14.5C	7.9 7.5		--	--	--	--	0 .00	47 .77	--	--	--	--	--		1A	
		10																		
		A5 L 017.3 111.6		LAKE ALMANOR IN NORTH FORK FEATHER RIVER ARM																
10/25/72 1240	5050 5050	90.10	9.8 104	52.0F 11.1C	7.3 7.3	105 98	--	--	--	--	0 .00	60 .98	--	--	--	--	--	40	2A	
		6																		
		A5 L 017.6 110.0		LAKE ALMANOR NEAR GOULD SWAMP																
10/25/72 1155	5050 5050	90.10	9.1 99	53.8F 12.1C	7.5 5.8	105 101	--	--	--	--	0 .00	56 .92	--	--	--	--	--	39	2A	
		6																		
		A5 3670.01		HALMILTON BRANCH AT LAKE ALMANOR																
05/22/73 1200	5050 5050	100E	9.5 110	59.0F 15.0C	7.1	80 82	--	--	--	--	--	--	--	--	--	--	--		2A	
		A5 3672.20		ROCK CREEK AT HIGHWAY 36																
05/22/73 1100	5050 5050	50E	10.9 115	50.0F 10.0C	7.1	51	--	--	--	--	--	--	--	--	--	--	--		0A	
		A5 3677.10		ROBBERS CREEK AT HIGHWAY 36																
05/22/73 1200	5050 5050	30E	9.5 113	59.0F 15.0C	7.1	46	--	--	--	--	--	--	--	--	--	--	--		0A	
		A5 3691.10		BAILEY CREEK AT HIGHWAY 36																
05/22/73 1000	5050 5050	75E	11.6 115	46.0F 7.8C	7.1	22	--	--	--	--	--	--	--	--	--	--	--		1A	
		A5 3693.51		FEATHER RIVER, NORTH FORK, AT CHESTER																
05/22/73 0830	5050 5050	100E	11.6 114	46.0F 7.8C	7.1	47	--	--	--	--	--	--	--	--	--	--	--		2A	
		A6 1265.00		SQUIRREL CREEK NEAR PENN VALLEY																
12/04/72 1300	5050 5050	6.23	11.5 99	45 F 7 C	7.3 7.7	150 155	13 .65 49	5.7 .47 35	4.9 .21 16	--	0 .00	77 1.26	--	4.9 .14	--	--	--	56 0	5A 0.3	
03/13/73 1415	5050 5050	6.52	11.0 102	50 F 10 C	7.3 7.9	122 131	9.8 .49 37	7.7 .63 48	4.4 .19 15	--	0 .00	67 1.10	--	4.7 .13	--	--	--	56 1	3A 0.3	
06/12/73 1200	5050 5050		10.8 123	68 F 20 C	7.6 7.8	109 120	11 .55 47	5.5 .45 38	4.1 .18 15	--	0 .00	61 1.00	--	3.5 .10	--	--	--	50 0	1A 0.3	
09/11/73 1330	5050 5050		9.7 109	66 F 19 C	7.4 7.5	76 91	7.8 .39 42	4.3 .35 38	4.2 .18 20	--	0 .00	44 .72	--	3.1 .09	--	--	--	73 1	37 1	1A 0.3
		A8 L 902.7 254.7 1		CLEAR LAKE AT LAKEPORT																
10/05/72 0745	5050 5050		5.0 55	64.4F 18.0C	7.6 7.8	295 295	--	--	12 .52 17	--	0 .00	167 2.74	--	7.8 .22	--	1.10	--	131	25A 0.5	
		11/16/72 1100		5050 5050																
		12/07/72 0915		5050 5050																
		01/19/73 1105		5050 5050																
		02/08/73 0900		5050 5050																
		03/08/73 1100		5050 5050																
		04/05/73 0910		5050 5050																

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				
						MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
AB L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT						CONTINUED														
05/25/73 0725	5050 5050		5.3 57	62.6F 17.0C	7.3 243	--	--	--	--	--	--	--	--	--	--	--	--	--	154F	
06/22/73 0800	5050 5050		3.9 44	66.2F 19.0C	7.4 251	--	--	--	--	--	--	--	--	--	--	--	--	--	9AF	
07/12/73 1025	5050 5050		10.9 135	76.1F 24.5C	8.3 245	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF	
08/09/73 0700	5050 5050		2.5 30	73.4F 23.0C	7.9 260	--	--	--	--	--	--	--	--	--	--	--	--	--	13AF	
09/14/73 1045	5050 5050		9.9 117	71.6F 22.0C	8.2 261 7.9 276	--	--	12 .52 17	--	0 .00	154 2.52	--	5.9 .17	--	1.00	--	--	125 13A 0.5		
AB 1120.00 CACHE CREEK NEAR CAPAY																				
10/12/72 0850	5050 5050	1.15	7.2 74	62 F 17 C	7.8 8.1	800 979	50 2.50 27	40 3.32 35	83 3.61 38	--	0 .00	290 4.75	--	147 4.15	--	2.00	--	291 5A 2.1		
11/15/72 0915	5050 5050	4.28	10.7 98	52 F 11 C	8.0 7.9	400 466	23 1.15 26	20 1.69 38	37 1.61 36	--	0 .00	146 2.39	--	53 1.49	--	1.70	--	142 23 1.4		
11/30/72 0930	5050 5050	1.72	11.3 99	49 F 9 C	8.2 8.1	800 976	52 2.59 26	43 3.58 36	88 3.83 38	--	0 .00	300 4.92	--	140 3.95	--	3.80	--	309 63 2.2		
02/09/73 1050	5050 5050	9.02	11.2 98	49 F 9 C	8.0 8.1	320 353	22 1.10 31	19 1.64 47	18 .78 22	--	0 .00	164 2.69	--	15 .42	--	.70	--	137 3 0.7		
06/21/73 1000	5050 5050	3.76	9.2 109	75 F 24 C	8.3 8.1	295 358	25 1.25 34	20 1.64 44	19 .83 22	--	0 .00	185 3.03	--	16 .45	--	1.00	--	204 0 0.7		
09/05/73 1345	5050 5050	3.16	8.8 105	76 F 24 C	8.2 8.3	285 344	27 1.35 35	20 1.65 43	19 .83 22	--	0 .00	188 3.08	--	16 .45	--	.80	--	167 0 0.7		
AB 1250.00 BEAR CREEK NEAR RUMSEY																				
11/16/72 1330	5050 5050	2.73 196	11.8 105	48.2F 9.0C	8.4 7.8	593 622	10 .50 9	29 2.38 41	66 2.87 49	2.9 .07 1	0 .00	170 2.79 49	15 .31 5	93 2.62 46	1.7 .03 1	2.30	--	334 303 5	145 2.4	
12/07/72 1310	5050 5050	1.07 7.0	12.5 99	40.1F 4.5C	8.2 8.2	3860 4000	--	--	650 28.28 72	--	0 .00	749 12.28	--	930 26.23	--	20.0	--	541 12.2		
01/19/73 1350	5050 5050	3.94 399	11.8 97	42.8F 6.0C	8.1 8.0	645 671	20 1.00 15	42 3.45 51	50 2.18 33	2.6 .07 1	0 .00	253 4.15 61	39 .81 12	62 1.75 26	2.2 .04 1	1.60	--	360 344 15	223 62A 1.5	
02/08/73 1215	5050 5050	3.82 508	10.7 97	50.0F 10.0C	8.0 8.0	630 674	--	--	47 2.04 30	--	0 .00	277 4.54	--	50 1.41	--	1.20	--	239 70A 1.3		
03/08/73 1345	5050 5050	3.14 263	9.1 88	54.5F 12.5C	8.2 8.2	829 921	--	--	62 2.70 28	--	0 .00	411 6.74	--	68 1.92	--	1.50	--	348 22A 1.4		
04/05/73 1225	5050 5050	2.22 75	9.2 95	60.8F 16.0C	8.1	1270	--	--	--	--	--	--	--	--	--	--	--	14F		
05/25/73 1010	5050 5050	1.62 17	9.6 107	67.1F 19.5C	8.2	2222	--	--	--	--	--	--	--	--	--	--	--	0AF		
06/22/73 1045	5050 5050	1.26 6.0	8.9 104	71.6F 22.0C	8.4	3090	--	--	--	--	--	--	--	--	--	--	--	1AF		
07/12/73 1315	5050 5050	1.12 4.0	9.8 130	84.2F 29.0C	8.4	3420	--	--	--	--	--	--	--	--	--	--	--	1AF		
08/09/73 0930	5050 5050	0.97 1.0	9.3 109	71.6F 22.0C	8.0	4340	--	--	--	--	--	--	--	--	--	--	--	1AF		
09/14/73 1325	5050 5050	1.02	12.5 154	77.0F 25.0C	8.2 8.8	5080 5380	5.8 .29 1	159 13.12 24	942 40.98 75	24 .61 1	134 4.47	816 13.37	64 1.33	1260 35.53	--	30.0	--	3010 3021 0	671 15.8	
AB 1350.00 CACHE CREEK NEAR LOWER LAKE																				
11/16/72 1200	5050 5050	0.34	9.5 88	50.0F 10.0C	7.6 7.4	234 246	--	--	11 .48 20	--	0 .00	128 2.10	--	6.0 .17	--	.80	--	98 0.5		
12/07/72 1125	5050 5050	0.15	10.1 84	42.8F 6.0C	7.6	280	--	--	--	--	--	--	--	--	--	--	--	--		
01/19/73 1220	5050 5050	7.30	11.1 94	43.7F 6.5C	7.2 6.9	160 161	--	--	7.2 .31 19	--	0 .00	75 1.23 88	--	4.8 .14 10	1.4 .02 1	.40	--	66 300A 0.4		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						PERCENT REACTANCE VALUE										MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR						
AB 2050.00		CACHE CREEK, NORTH FORK, NEAR LOWER LAKE																							
10/05/72	5050		9.9	66.2F	8.0	540	--	--	41	--	0	216	--	64	--	4.70	--		188	0A					
0930	5050	1.6	110	19.0C	8.1	564			1.78		.00	3.54		1.80		--				1.3					
									32																
11/16/72	5050	3.76	10.0	50.0F	7.9	319	--	--	21	--	0	140	--	29	--	2.40	--		120	22A					
1245	5050	424	91	10.0C	7.9	347			.91		.00	2.29		.82		--				0.8					
									27																
12/07/72	5050	1.85	12.3	43.7F	8.1	672	--	--	50	--	0	261	--	86	--	5.70	--		235	0A					
1230	5050	38	103	6.5C	8.1	694			2.18		.00	4.28		2.43		--				1.4					
									32																
01/19/73	5050	6.06	10.8	46.4F	7.8	149	--	--	6.4	--	0	81	--	7.5	--	.20	--		66	250A					
1305	5050	2110	94	8.0C	7.5	154			.28		.00	1.33		.21		--				0.3					
									18																
02/08/73	5050	4.38	10.8	49.1F	7.8	173	--	--	7.3	--	0	98	--	4.3	--	.20	--		79	130A					
1115	5050	1570	98	9.5C	7.6	179			.32		.00	1.61		.12		--				0.4					
									17																
03/08/73	5050	3.80	10.0	51.8F	7.8	255	--	--	--	--	--	--	--	--	--	--	--			30AF					
1300	5050	650	94	11.0C																					
04/05/73	5050	2.64	9.8	56.3F	8.0	334	--	--	--	--	--	--	--	--	--	--	--			2AF					
1130	5050	242	97	13.5C																					
05/25/73	5050	1.44	10.2	64.4F	8.0	487	--	--	--	--	--	--	--	--	--	--	--			5AF					
0935	5050	44	111	18.0C																					
06/22/73	5050	1.02	9.3	68.9F	8.2	514	--	--	--	--	--	--	--	--	--	--	--			1AF					
0950	5050	13	106	20.5C																					
07/12/73	5050	0.81	9.9	84.2F	8.2	492	--	--	--	--	--	--	--	--	--	--	--			1AF					
1230	5050	4.3	132	29.0C																					
08/09/73	5050	0.73	9.0	72.5F	7.9	545	--	--	--	--	--	--	--	--	--	--	--			0AF					
0850	5050	2.7	107	22.5C																					
09/14/73	5050	0.72	11.6	73.4F	8.1	537	--	--	39	--	0	227	--	63	--	3.50	--		212	0A					
1240	5050	2.5	139	23.0C	8.2	578			1.70		.00	3.72		1.78		--				1.2					
									29																
A9 1250.00		PUTAH CREEK NEAR WINTERS																							
10/12/72	5050	4.87	10.4	53 F	7.9	290	16	26	10	--	0	176	--	6.0	--	--	--		150	1A					
0915	5050		96	12 C	8.0	318	.80	2.20	.44		.00	2.88		.17		--	--		6	0.4					
							23	64	13																
11/15/72	5050	4.23	11.4	52 F	7.3	260	18	14	14	--	0	118	--	15	--	--	--		106	34A					
1020	5050		104	11 C	7.8	277	.90	1.22	.61		.00	1.93		.42		--	--		10	0.6					
							33	45	22																
12/21/72	5050	5.30	10.4	52 F	7.8	320	18	28	11	--	0	188	--	9.6	--	--	--		161	4A					
1000	5050		95	11 C	8.0	356	.90	2.32	.48		.00	3.08		.27		--	--		7	0.4					
							24	63	13																
01/23/73	5050	4.57	10.7	47 F	7.6	500	42	6.1	34	--	0	219	--	30	--	--	--		130						
1450	5050		91	8 C	8.1	570	2.10	.50	1.48		.00	3.59		.85		--	--		0	1.3					
							51	12	36																
02/09/73	5050	5.10	10.2	52 F	7.7	450	37	24	33	--	0	199	--	20	--	--	--		192	20A					
0930	5050		93	11 C	8.0	516	1.85	1.99	1.44		.00	3.26		.56		--	--		29	1.0					
							35	38	27																
03/09/73	5050	8.78	11.5	52 F	8.2	280	17	26	10	--	0	167	--	7.6	--	--	--		150	10A					
1015	5050		105	11 C	8.2	315	.85	2.15	.44		.00	2.74		.21		--	--		13	0.4					
							25	63	13																
04/16/73	5050	6.95	11.8	62 F	8.4	290	18	24	10	--	0	167	--	6.6	--	--	--		146	2A					
1430	5050		121	17 C	7.9	315	.90	2.02	.44		.00	2.74		.19		--	--		9	0.4					
							27	60	13																
05/10/73	5050	7.74	14.1	52 F	8.2	285	17	25	22	--	0	171	--	5.0	--	.20	--		145	2A					
1030	5050		129	11 C	8.1	310	.85	2.06	.96		.00	2.80		.14		--	--		6	0.8					
							22	53	25																
06/14/73	5050	8.13	14.3	53 F	8.0	280	17	26	8.2	--	0	172	--	4.7	--	.20	--		172	148					
1430	5050		132	12 C	8.1	305	.85	2.14	.36		.00	2.82		.13		--	--		9	0.3					
							25	64	11																
07/20/73	5050	7.91	11.2	53 F	8.0	290	17	26	8.2	--	0	172	--	6.8	--	--	--		181	151					
1000	5050		103	12 C	8.2	307	.85	2.17	.36		.00	2.82		.19		--	--		10	0.3					
							25	64	11																
08/06/73	5050	7.73	11.3	54 F	8.1	270	15	27	10	--	0	170	--	5.9	--	--	--		156	149					
1300	5050		106	12 C	8.3	308	.75	2.23	.44		.00	2.79		.17		--	--		10	0.4					
							22	65	13																
09/12/73	5050	7.06	10.9	53 F	8.1	255	16	26	9.7	--	0	173	--	5.4	--	.20	--		171	150					
0800	5050		101	12 C	8.2	308	.80	2.20	.42		.00	2.84		.15		--	--		8	0.3					
							23	64	12																
B0 2105.00		MOKELUMNE RIVER AT WOODBRIDGE																							
01/31/73	5050	10.21	11.5	48 F	7.1	51	3.9	2.2	2.9	--	0	20	--	3.6	--	--	--		19	18A					
1300	5050		99	9 C	7.2	50	.19	.18	.13		.00	.33		.10		--	--		2	0.3					
							38	36	26																
09/05/73	5050	4.77	9.8	62 F	7.2	48	5.0	2.8	3.0	--	0	27	--	2.9	--	--	--		36	24					
0230	5050		100	17 C	7.1	55	.25	.23	.13		.00	.44		.08		--	--		2	0.3					
							41	38	21																

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
BO		2580.00		STOCKTON DIVERTING CANAL AT STOCKTON																
11/16/72	5050	4.44	5.6	52	F	7.2	350	20	10	21	--	0	115	--	31	--	--	--	92	30A
1000	5050		51	11	C	7.6	382	1.00	.84	.91	--	.00	1.88		.87	--	--	--	0	1.0
								36	31	33										
01/16/73	5050	9.98	7.1	53	F	7.3	180	13	6.4	8.2	--	0	.70	--	14	--	--	--	59	220A
1415	5050		65	12	C	7.0	188	.65	.53	.36	--	.00	1.15		.39	--	--	--	2	0.5
								42	34	23										
02/15/73	5050	11.52	11.6	49	F	7.6	172	19	7.7	5.4	--	0	82	--	5.6	--	--	--	79	45A
1015	5050		101	9	C	7.8	184	.95	.63	.23	--	.00	1.34		.16	--	--	--	12	0.3
								52	35	13										
03/01/73	5050	9.87	11.5	52	F	7.4	160	17	6.9	5.4	--	0	76	--	5.4	--	--	--	71	35A
1030	5050		104	11	C	7.7	170	.85	.57	.23	--	.00	1.25		.15	--	--	--	9	0.3
								52	35	14										
04/02/73	5050	3.70	11.4	62	F	9.0	215	21	9.6	10	--	0	107	--	7.9	--	--	--	92	2A
1535	5050		117	17	C	7.8	242	1.05	.79	.44	--	.00	1.75		.22	--	--	--	5	0.5
								46	35	19										
09/05/73	5050	2.93	3.2	67	F	7.3	180	19	10	10	--	0	107	--	2.2	--	--	--	124	91
0945	5050		35	19	C	8.0	213	.95	.87	.44	--	.00	1.75		.06	--	--	--	4	0.5
								42	38	19										
BO		7020.00		SAN JOAQUIN RIVER NEAR VERNALIS																
10/18/72	5001		8.2	66	F	7.7		--	--	--	--	0	128	--	97	--	--	--		27AF
1515	5001		88	19	C	7.6	709	--	--	--	--	.00	2.10		2.74		22.0			
10/19/72	5050	10.98	6.0	61.7F	7.4	325	30	16	72	3.7	0	129	57	100	--	.22	.3		140	20C
0700	5000		61	16.5C	6.9	662	1.50	1.32	3.13	.09	.00	2.11	1.19	2.82		20.0	362	36	36	2.6
							25	22	52	1		34	19	46						
11/06/72	5001			59.0F			35	20	92	3.4	0	137	65	123	6.6	.30	--	462	167	
1430	5050			15.0C	7.6	821	1.75	1.64	4.00	.09	.00	2.25	1.35	3.47	.11	--	--	413	57	3.1
							23	22	53	1		31	19	48	2					
11/15/72	5050	11.52	8.9	54	F	7.4	550	31	15	79	5.4	0	146	63	100	--	.32	.3		140
0830	5000		82	12	C	6.6	595	1.55	1.23	3.44	.14	.00	2.39	1.31	2.82		18.0	384	20	50C
								24	19	54	2		37	20	43					2.9
11/20/72	5001		8.2	54	F	7.9		--	--	--	--	--	--	--	90	--	--	--		38AF
1300	5001		76	12	C		701	--	--	--	--	--	--	2.54	--	17.4				
12/14/72	5050		11.5	41.0F	7.4	440	33	17	88	2.8	0	118	91	100	--	.41	.3		150	7C
0830	5000		90	5.0C	7.3	702	1.65	1.40	3.83	.07	.00	1.93	1.89	2.82		14.0	404	56	56	3.1
							24	20	55	1		29	28	42						
12/18/72	5001		10.6	46	F	7.2		--	--	--	--	--	--	115	--	--	--	--		10AF
1515	5001		89	8	C		791	--	--	--	--	--	--	3.24	--	17.0				
01/22/73	5001		9.7	46	F	7.2		--	--	--	--	0	95	--	60	--	--	--		80AF
1430	5001		82	8	C	7.6	505	--	--	--	--	.00	1.56		1.69		15.4			
01/24/73	5050		9.7	46	F	7.4	420	30	15	77	3.7	0	114	91	81	--	.48	.2		140
1035	5000		82	8	C	7.5	644	1.50	1.23	3.35	.09	.00	1.87	1.89	2.28		17.0	371	43	40C
								24	20	54	1		31	31	38					2.9
02/05/73	5001			51.8F			32	18	96	2.5	0	114	114	108	6.2	.70	--	407	154	
1300	5050			11.0C	8.0	789	1.60	1.48	4.18	.06	.00	1.87	2.37	3.05	.10	--	--	433	61	3.4
							22	20	57	1		25	32	41	1					
02/20/73	5001		7.4	55	F	7.3		--	--	--	--	--	--	50	--	--	--	--		37AF
1425	5001		70	13	C		474	--	--	--	--	--	--	1.41	--	16.2				
02/23/73	5050	18.96	8.2	54	F	7.4	800	25	11	55	3.2	0	106	61	58	--	.31	.2		110
0750	5000		76	12	C	7.6	492	1.25	.90	2.39	.08	.00	1.74	1.27	1.64		17.0	283	21	30C
								27	19	52	2		37	27	35					2.3
03/06/73	5001		9.0	54	F	7.5		--	--	--	--	0	132	--	100	--	--	--	264	29AF
1605	5050		83	12	C	7.9	788	--	--	--	--	.00	2.16		2.82		--	--		
04/03/73	5001		10.4	57	F	7.8	542	--	--	--	--	0	96	--	54	--	--	--	268	21AF
1455	5050		101	14	C	7.8	462	--	--	--	--	.00	1.57		1.52		--	--		
04/18/73	5050	13.72	9.9	59.0F	7.4	500	34	17	73	3.1	0	117	75	960	--	.31	.0		160	30C
0915	5000		98	15.0C	7.5	666	1.70	1.40	3.18	.08	.00	1.92	1.56	27.07		18.0	1238	59	59	2.6
							27	22	50	1		6	5	89						
05/01/73	5001		9.9	66	F	7.3	690	--	--	--	--	0	98	--	89	--	--	--	351	17AF
1400	5050		106	19	C	7.7	625	--	--	--	--	.00	1.61		2.51		17.2			
05/07/73	5001			69.8F			40	21	93	2.8	0	141	91	132	6.8	.30	--	466	185	
1430	5050			21.0C	8.0	847	2.00	1.73	4.05	.07	.00	2.31	1.89	3.72	.11	--	--	456	71	3.0
							25	22	52	1		29	24	46	1					
05/17/73	5050	11.82	9.0	73	F	7.6	700	37	18	78	3.7	0	139	69	110	--	.25	.3		170
0730	5000		104	23	C	6.9	717	1.85	1.48	3.39	.09	.00	2.28	1.44	3.10		23.0	407	53	30C
								27	22	50	1		33	21	45					2.6
06/05/73	5001		11.2	72	F	8.6	350	--	--	--	--	0	66	--	52	--	--	--	186	17AF
1730	5050		127	22	C	7.8	348	--	--	--	--	.00	1.08		1.47		12.0			
06/15/73	5050	11.84	9.1	64.4F	7.6	450	29	14	53	2.2	0	107	36	85	--	.13	.1		130	30C
0700																				

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH	TURB SAR		
80 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS CONTINUED																					
07/02/73 1800	5001 5050		13.1 157	77 25	F C	8.4 8.3	890 850	-- --	-- --	0 .00	154 2.52	-- 3.84	136 --	-- --	15.2	458			50AF		
07/19/73 0715	5050 5000	9.78	9.4 105	70 21	F C	8.1 7.5	900 992	49 2.45	25 2.06	110 4.79	4.4 .11	0 .00	184 3.02	90 1.87	170 4.79	-- .35	.2 18.0	557	230 75	40C 3.2	
07/25/73 1030	5000 5000		75.2F 24.0C	8.3 7.9		836	41 2.05	21 1.73	91 3.96	4.1 .10	0 .00	160 2.62	71 1.48	130 3.67	-- .2	17.0	510 454	190 58	60C 2.9		
07/31/73 1600	5001 5050		12.3 153	81 27	F C	8.9 8.0	1000 893	-- --	-- --	0 .00	157 2.57	-- 3.95	140 --	-- --	17.6	496			49AF		
08/06/73 1420	5001 5050					8.3 914	43 2.15	24 1.97	103 4.48	3.9 .10	0 .00	159 2.61	95 1.98	143 4.03	9.5 .15	.30 --	-- 500	542 76	204 76	3.1	
08/16/73 0830	5050 5000	10.06	9.7 116	77.0F 25.0C	7.7 8.1	820 902	46 2.30	22 1.81	110 4.79	4.5 .12	0 .00	174 2.85	69 1.44	150 4.23	-- .29	.2 18.0	505	210 63	40C 3.3		
08/28/73 1525	5001 5050		9.0 106	75.2F 24.0C	8.4 8.7	865 806	-- --	-- --	-- --	14 .47	133 2.18	-- 3.41	121 --	-- --	20.4	416			38AF		
09/25/73 1350	5001 5050		6.4 69	66 19	F C	8.1 8.0	745 716	-- --	-- --	0 .00	153 2.51	-- 2.93	104 --	-- --	24.8	394			21AF		
81 1150.00 COSUMNES RIVER AT MICHIGAN BAR																					
11/16/72 1330	5050 5050	3.78	11.0 102	53 12	F C	7.3 7.4	112 118	9.9 .49	5.4 .44	4.2 .18	-- .00	49 .80	-- 3.9	-- .11	-- --	-- --	-- --	47 7	10A 0.3		
03/13/73 0900	5050 5050	4.96	12.3 105	47 8	F C	7.3 7.5	90 94	7.6 .38	4.9 .40	3.5 .15	-- .00	45 .74	-- 3.7	-- .10	-- --	-- --	-- --	39 2	4A 0.2		
05/08/73 1330	5050 5050	4.35	11.7 119	61 16	F C	7.3 7.8	54 54	4.9 .24	2.4 .20	2.4 .10	-- .00	28 .46	-- 2.8	-- .08	-- --	-- --	-- --	22 0	0.2		
09/21/73 1020	5050 5050	2.36	8.9 102	72 22	F C	7.3 7.9	61 70	6.1 .30	2.7 .22	4.2 .18	1.2 .03	0 .00	36 .59	2.1 .04	2.4 .07	.0 .00	.00 --	52 36	26 0	0A 0.4	
81 2100.00 COSUMNES RIVER, NORTH FORK, NEAR EL DORADO																					
03/13/73 0945	5050 5050	4.22	12.0 101	44 7	F C	7.1 7.1	58 58	4.7 .23	2.7 .22	3.0 .13	-- .00	26 .43	-- 2.6	-- .07	-- --	-- --	-- --	23 1	3A 0.3		
09/21/73 0930	5050 5050	2.43	9.1 97	63 17	F C	7.1 7.2	46 50	4.3 .21	2.7 .22	2.9 .13	-- .00	26 .43	-- 1.3	-- .04	-- --	-- --	-- --	26 0	22 0	0A 0.3	
81 3150.00 COSUMNES RIVER, MIDDLE FORK, NEAR SOMERSET																					
03/13/73 1100	5050 5050	5.96	11.8 102	44 7	F C	7.0 7.1	44 45	3.8 .19	2.1 .17	2.5 .11	-- .00	23 .38	-- 2.6	-- .07	-- --	-- --	-- --	18 0	1A 0.3		
09/21/73 0815	5050 5050	3.68	9.0 93	58 14	F C	7.1 7.3	55 62	6.4 .32	1.7 .14	3.5 .15	-- .00	35 .57	-- 1.2	-- .03	-- --	-- --	-- --	50 0	23 0	0A 0.3	
81 4110.01 COSUMNES RIVER, SOUTH FORK, AT RIVER PINES																					
03/13/73 1030	5050 5050	70E	11.5 101	45 7	F C	7.2 7.3	70 74	6.3 .31	3.5 .29	3.2 .14	-- .00	38 .62	-- 3.6	-- .10	-- --	-- --	-- --	30 0	2A 0.3		
09/21/73 0940	5050 5050	3E	7.6 82	61 16	F C	7.2 7.7	121 150	13 .65	6.7 .55	6.1 .27	-- .00	78 1.28	-- 5.1	-- .14	-- --	-- --	-- --	86 0	60 0	0A 0.3	
89 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																					
10/17/72 1000	5050 5050	2.02	7.5 30	96S 518	F C	7.3 7.7	625 710	32 1.60	17 1.40	78 3.39	3.0 .08	0 .00	128 2.10	61 1.27	112 3.16	7.6 .12	.20 --	-- 372 374	151 45	13A 2.8	
11/16/72 1100	5050 5050	2.14	8.0 75	55 13	F C	7.3 7.4	600 681	31 1.55	14 1.15	77 3.35	4.8 .12	0 .00	132 2.16	61 1.27	88 2.48	7.4 .12	.30 --	-- 382 348	136 27	21A 2.9	
12/12/72 1215	5050 5050	2.85	11.4 90	42 6	F C	7.4 7.5	650 757	34 1.70	24 1.97	92 4.00	2.2 .06	0 .00	153 2.51	94 1.96	118 3.33	5.9 .10	.50 --	-- 428 446	182 58	3.0	
01/30/73 1300	5050 5050	5.30	10.0 85	47 8	F C	7.5 7.8	710 801	34 1.70	17 1.40	97 4.22	2.3 .06	0 .00	123 2.02	115 2.39	105 2.96	5.4 .09	.50 --	-- 447 437	154 54	11A 3.4	
02/15/73 1240	5050 5050	5.53	8.5 77	52 11	F C	7.2 7.3	280 306	16 .80	7.4 .61	33 1.44	3.2 .08	0 .00	72 1.18	34 .71	31 .87	5.1 .08	.20 --	-- 181 165	71 12	55A 1.7	
03/15/73 0945	5050 5050	5.25	9.6 88	53 12	F C	7.5 7.9	575 659	32 1.60	15 1.23	68 2.96	2.0 .05	0 .00	122 2.00	72 1.50	82 2.31	.0 .00	.40 --	-- 364 331	143 42	17A 2.5	
04/12/73 1330	5050 5050	3.70	10.1 106	64 18	F C	7.6 8.3	460 532	27 1.35	12 .99	56 2.44	2.1 .05	0 .00	111 1.82	56 1.17	69 1.95	.6 .01	.20 --	-- 300 277	119 26	8A 2.3	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB	SAR			
B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE							CONTINUED																	
05/08/73	5050	2.26	10.6	67	F	7.8	700	44	21	91	3.1	0	142	88	131	6.4	.30	--	498	196	24A			
0840	5050		115	19	C	8.0	849	2.20	1.73	3.96	.08	.00	2.33	1.83	3.69	.10	--	--	455	80	2.8			
								28	22	50	1		29	23	46	1								
06/13/73	5050	2.78	12.6	67	F	8.2	320	18	8.5	36	.9	0	64	35	48	2.1	.20	--	218	80	19A			
1045	5050		136	19	C	7.7	357	.90	.70	1.57	.02	.00	1.05	.73	1.35	.03	--	--	180	28	1.8			
								28	22	49	1		33	23	43	1								
07/17/73	5050	2.38	15.9	76	F	8.8	825	43	31	114	4.1	0	180	110	154	5.8	.40	--	604	234	21A			
0940	5050		189	24	C	8.2	1010	2.15	2.55	4.96	.10	.00	2.95	2.29	4.34	.09	--	--	551	88	3.2			
								22	26	51	1		31	24	45	1								
08/20/73	5050	1.30	17.6	67	F	8.8	700	45	27	104	3.9	0	168	80	158	7.6	.30	--	572	222				
1230	5050		190	19	C	8.2	971	2.25	2.22	4.52	.10	.00	2.75	1.67	4.46	.12	--	--	508	86	3.0			
								25	24	50	1		31	19	50	1								
09/05/73	5050	1.40	8.6	71	F	7.8	615	35	25	91	3.6	0	158	68	128	9.2	.30	--	481	191	22A			
1045	5050		97	22	C	8.0	837	1.75	2.06	3.96	.09	.00	2.59	1.42	3.61	.15	--	--	438	61	2.9			
								22	26	50	1		33	18	46	2								
09/13/73	5050		7.4	72	F		750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF		
1005	5050		84	22	C																			
		3																						
09/21/73	5050		6.7	69.8F			750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF		
0730	5050		75	21.0C																				
		3																						
B9 D 748.0 125.2 SUGAR CUT AT MOUTH																								
09/13/73	5050		9.3	72	F		800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18AF		
0847	5050		106	22	C																			
		3																						
09/21/73	5050		7.6	70	F		775	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12AF		
0630	5050		85	21	C																			
		3																						
B9 D 748.3 126.9 OLD RIVER AT TRACY ROAD BRIDGE																								
10/16/72	5001		6.5	63	F	7.6		--	--	--	--	0	134	--	100	--	--	--	--	--	--	12AF		
1510	5001		67	17	C	7.6	672					.00	2.20		2.82		--	--	19.4					
		3																						
11/20/72	5001		5.4	54	F	7.8		--	--	--	--	--	--	--	100	--	--	--	--	--	--	30AF		
1140	5001		50	12	C		741								2.82		--	--	17.0					
		3																						
12/18/72	5001		10.1	43	F	7.2		--	--	--	--	--	--	--	120	--	--	--	--	--	--	10AF		
1430	5001		81	6	C		839								3.38		--	--	15.4					
		3																						
01/22/73	5001		8.3	48	F	7.1		--	--	--	--	0	106	--	90	--	--	--	--	--	--	40AF		
1330	5001		72	9	C	7.5	605					.00	1.74		2.54		--	--	16.6					
		3																						
02/20/73	5001		8.1	55	F	7.3		--	--	--	--	--	--	--	60	--	--	--	--	--	--	50AF		
1340	5001		77	13	C		493								1.69		--	--	17.0					
		2																						
03/06/73	5001		8.6	54	F	7.5		--	--	--	--	0	120	--	93	--	--	--	--	--	--	27AF		
1330	5050		80	12	C	7.6	743					.00	1.97		2.62		--	--	--					
		3																						
04/03/73	5001		10.5	55	F	7.6	610	--	--	--	--	0	102	--	65	--	--	--	--	--	--	20AF		
1235	5050		99	13	C	7.7	521					.00	1.67		1.83		--	--	--					
		3																						
05/01/73	5001		9.6	66	F	7.5	820	--	--	--	--	0	119	--	130	--	--	--	--	--	--	25AF		
1055	5050		103	19	C	7.8	800					.00	1.95		3.67		--	--	15.0					
		3																						
06/05/73	5001		12.4	73	F	9.0	420	--	--	--	--	0	80	--	60	--	--	--	--	--	--	30AF		
1515	5050		143	23	C	7.9	426					.00	1.31		1.69		--	--	9.8					
		3																						
07/02/73	5001		14.5	77	F	8.6	970	--	--	--	--	0	163	--	161	--	--	--	--	--	--	28AF		
1510	5050		174	25	C	8.3	955					.00	2.67		4.54		--	--	6.4					
		3																						
07/31/73	5001		9.8	81	F	8.5	780	--	--	--	--	0	172	--	178	--	--	--	--	--	--	19AF		
1340	5050		122	27	C	8.0	1050					.00	2.82		5.02		--	--	8.0					
		3																						
08/28/73	5001		8.5	73.4F	8.3	1100		--	--	--	--	0	185	--	180	--	--	--	--	--	--	33AF		
1305	5050		98	23.0C	8.1	1040						.00	3.03		5.08		--	--	13.4					
		3																						
09/13/73	5050		7.7	70.0F				--	--	--	--	--	--	--	--	--	--	--	--	--	--			
0913	5050		86	21.1C																				
		3																						
09/21/73	5050		7.2	68.9F				--	--	--	--	--	--	--	--	--	--	--	--	--	--			
0645	5050		79	20.5C																				
		3																						
09/25/73	5001		6.5	66	F	8.1	845	--	--	--	--	0	169	--	125	--	--	--	--	--	--	23AF		
1030	5050		70	19	C	7.8	846					.00	2.77		3.53		--	--	20.2					
		3																						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	N03	B	F	TD5 SUM
89 D 748.6 119.4 SAN JOAQUIN RIVER BELOW HEAD OF OLD RIVER																	
09/13/73 0955	5050		7.4 84	72 22	F C												
		3															
09/21/73 0720	5050		7.0 79	70.7F 21.5C													
		3															
89 D 748.6 123.5 OLD RIVER BELOW HEAD OF MIDDLE RIVER																	
09/13/73 0920	5050		8.4 95	72 22	F C												
		3															
09/21/73 0700	5050		6.1 68	70 21	F C												
		3															
89 D 749.1 121.6 OLD RIVER ABOVE HEAD OF MIDDLE RIVER																	
09/13/73 0950	5050 5050		7.1 81	72 22	F C	770										14AF	
		3															
09/21/73 0720	5050 5050		6.0 67	70 21	F C	770										14AF	
		3															
89 D 749.2 126.9 GRANT LINE CANAL AT TRACY ROAD BRIDGE																	
09/13/73 0825	5050 5050		9.2 104	72 22	F C	800										20AF	
		3															
09/21/73 0615	5050 5050		8.2 91	70 21	F C	770										15AF	
		3															
89 D 749.5 222.7 MIDDLE RIVER AT HEAD																	
09/13/73 0935	5050 5050		7.1 80	70.7F 21.5C		775										16AF	
		3															
09/21/73 0710	5050 5050		7.4 82	70 21	F C	770										13AF	
		3															
89 D 749.7 133.2 WEST CANAL AT INTAKE GATES TO CLIFTON COURT FOREBAY																	
07/10/73 0950	5050 5050					357						52 1.47					
89 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY																	
03/06/73 1510	5001 5050		8.1 77	55 13	F C	7.4 974				0 .00	140 2.29	141 3.98			537	26AF	
		3															
04/03/73 1340	5001 5050		10.2 99	57 14	F C	7.7 635 7.5 541				0 .00	105 1.72	69 1.95			319	16AF	
		3															
05/01/73 1220	5001 5050		10.1 108	66 19	F C	7.3 698 7.4 662				0 .00	107 1.75	102 2.88		14.6	368	25AF	
		3															
06/05/73 1610	5001 5050		11.3 131	73 23	F C	8.7 370 7.9 369				0 .00	70 1.15	54 1.52		10.3	197	27AF	
		3															
07/02/73 1610	5001 5050		10.9 131	77 25	F C	8.6 785 8.2 763				0 .00	136 2.23	121 3.41		6.8	402	23AF	
		3															
07/31/73 1440	5001 5050		10.8 134	81 27	F C	8.6 970 8.3 872				0 .00	147 2.41	142 4.00		7.0	485	20AF	
		3															
08/28/73 1400	5001 5050		9.8 113	73.4F 23.0C		8.6 900 8.4 856				2.0 .07	154 2.52	139 3.92		12.4	453	25AF	
		3															
09/25/73 1245	5001 5050		6.5 71	68 20	F C	8.0 610 8.2 609				0 .00	134 2.20	84 2.37		18.8	330	23AF	
		3															
89 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE																	
09/13/73 0920	5050 5050		12.2 138	72 22	F C	775										25AF	
		3															
09/21/73 0655	5050 5050		9.5 105	68.9F 20.5C		750										15AF	
		3															
89 D 752.6 122.9 MIDDLE RIVER AT WILLIAMS BRIDGE																	
10/16/72 1555	5001 5001		7.6 78	63 17	F C	7.6 392				0 .00	91 1.49					31AF	
		3															
11/20/72 1050	5001 5001		7.3 66	52 11	F C	7.8 776										30AF	
		3															

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. D DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR						
R9 D 752.6 122.9 MIDDLE RIVER AT WILLIAMS BRIDGE						CONTINUED																			
12/18/72 1345	5001 5001		11.5 92	43 6	F 7.2 C	772	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9AF		
R9 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY																									
10/16/72 1420	5001 5001		7.1 75	64 18	F 7.5 C		--	--	--	0 .00	84 1.38	--	35 .99	--	--	--	16.0	--	--	--	--	20AF			
11/06/72 1210	5001 5050			59.0F 15.0C		348	--	--	33 1.44	--	--	--	43 1.21	--	--	--	--	--	--	174	--				
11/20/72 1005	5001 5001		9.2 85	54 12	F 7.7 C	401	--	--	--	--	--	--	52 1.47	--	--	--	18.0	--	--	--	--	15AF			
12/18/72 1300	5001 5001		10.8 84	41 5	F 7.0 C	458	--	--	--	--	--	--	58 1.64	--	--	--	20.0	--	--	--	--	10AF			
01/22/73 1250	5001 5001		9.3 80	48 9	F 7.0 C	719	--	--	--	0 .00	84 1.38	--	110 3.10	--	--	--	20.2	--	--	--	--	37AF			
02/05/73 1145	5001 5050			50.0F 10.0C		887	--	--	97 4.22	--	--	--	126 3.55	--	--	--	--	--	--	505	--				
02/20/73 1300	5001 5001		7.8 72	54 12	F 7.3 C	383	--	--	--	--	--	--	40 1.13	--	--	--	15.4	--	--	--	--	55AF			
03/06/73 1230	5001 5050		7.5 69	54 12	F 7.2 C	836	--	--	--	0 .00	122 2.00	--	118 3.33	--	--	--	460	--	--	--	--	27AF			
04/03/73 1130	5001 5050		9.6 91	55 13	F 7.3 C	528 492	--	--	--	0 .00	98 1.61	--	59 1.66	--	--	--	285	--	--	--	--	30AF			
05/01/73 1005	5001 5050		7.4 79	66 19	F 7.1 C	412 405	--	--	--	0 .00	91 1.49	--	48 1.35	--	--	--	13.6	--	--	--	--	29AF			
05/07/73 1240	5001 5050			64.4F 18.0C		323	--	--	28 1.22	--	--	--	35 .99	--	--	--	--	--	--	198	--				
06/05/73 1430	5001 5050		6.8 79	73 23	F 7.6 C	310 297	--	--	--	0 .00	78 1.28	--	34 .96	--	--	--	12.9	--	--	--	--	25AF			
07/02/73 1410	5001 5050		7.0 84	77 25	F 7.5 C	242 221	--	--	--	0 .00	72 1.18	--	21 .59	--	--	--	16.6	--	--	--	--	18AF			
07/31/73 1240	5001 5050		8.6 103	77 25	F 7.8 C	370 342	--	--	--	0 .00	64 1.05	--	51 1.44	--	--	--	12.4	--	--	--	--	18AF			
08/06/73 1235	5001 5050					312	--	--	31 1.35	--	--	--	48 1.35	--	--	--	--	--	--	160	--				
08/28/73 1220	5001 5050		7.7 87	71.6F 22.0C	7.6 8.0	282 265	--	--	--	0 .00	76 1.25	--	33 .93	--	--	--	14.8	--	--	--	--	22AF			
09/25/73 0950	5001 5050		6.7 70	64 18	F 8.0 C	270 271	--	--	--	0 .00	88 1.44	--	27 .76	--	--	--	13.2	--	--	--	--	23AF			
R9 D 753.5 134.2 OLD RIVER NEAR BYRON																									
02/01/73 1630	5050 5050		8.8 76	48.0F 8.9C	7.2 7.4	846 862	42 2.10	28 2.30	93 4.05	3.1 .08	0 .00	98 1.61	132 2.75	141 3.98	12.0 .19	.60	--	513 500	220 140	--	--	2.7			
R9 D 753.8 119.6 SAN JOAQUIN RIVER BELOW FAIRCHILD SCHOOL																									
09/13/73 0910	5050		9.0 102	72 22	F C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
09/21/73 0645	5050		10.0 111	69.8F 21.0C			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
R9 D 755.1 137.3 INDIAN SLOUGH NEAR BRENTWOOD																									
02/01/73 1800	5050 5050		9.0 82	52.0F 11.1C	7.9 7.8	1695 1730	68 3.39	49 4.03	231 10.05	2.5 .06	0 .00	343 5.62	223 4.64	243 6.85	23.0 .37	3.40	--	1040 1012	371 90	--	--	5.2			
R9 D 755.7 119.6 SAN JOAQUIN RIVER AT HIGHWAY 4																									
09/13/73 0900	5050 5050		8.0 91	72 22	F C	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26AF			
09/21/73 0635	5050 5050		8.7 96	68.9F 20.5C		500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28AF			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TD5	TH	TURB		

B9 D 756.1 125.8 WHISKY SLOUGH AT HOLT																					
10/16/72	5001		4.8	64	F	7.5					0	91								11AF	
1340	5001		50	18	C	7.4	454				.00	1.49									
		3																			
11/20/72	5001		7.9	54	F	7.4														15AF	
0920	5001		73	12	C		882														
		3																			
12/18/72	5001		10.7	41	F	6.5														9AF	
1210	5001		84	5	C		966														
		3																			
B9 D 756.3 120.1 SAN JOAQUIN RIVER BELOW SANTA FE RR XING AT STOCKTON																					
09/13/73	5050		5.4	72	F		555													20AF	
0850	5050		61	22	C																
		3																			
09/21/73	5050		7.7	68.9F			650													28AF	
0625	5050		85	20.5C																	
		3																			
B9 D 756.6 133.9 OLD RIVER AT PALM TRACT																					
03/12/73	5001		9.1	55	F	7.6	680				0	120		100						24AF	
1440	5050		86	13	C	7.9	814				.00	1.97		2.82			18.2		468		
		1																			
03/26/73	5001		9.0	57	F	7.5	735				0	114		94						387	
1330	5050		87	14	C	7.6	701				.00	1.87		2.65			18.6				
		2																			
04/09/73	5001		8.7	61	F	7.4	578				0	101		65						270	
1410	5050		88	16	C	7.5	538				.00	1.66		1.83			18.8				
		3																			
04/23/73	5001		9.4	63	F	7.9	440				0	92		46						282	
1230	5050		97	17	C	7.8	419				.00	1.51		1.30			16.6				
		3																			
05/07/73	5001		8.2	66	F	7.5	268				0	76		22						147	
1205	5050		88	19	C	7.5	244				.00	1.25		.62			13.6				
		1																			
05/25/73	5001		7.8	72	F	7.9	230				0	73		17						125	
1410	5050		89	22	C	8.0	188				.00	1.20		.48			16.2				
		2																			
06/08/73	5001		7.6	77	F	7.9	255				0	74		19						132	
1355	5050		91	25	C	7.8	231				.00	1.21		.54			18.1				
		1																			
06/22/73	5001		8.2	77	F	7.5	228				0	74		18						100	
1235	5050		98	25	C	7.8	217				.00	1.21		.51							
		2																			
B9 D 756.9 120.2 SAN JOAQUIN RIVER AT U.S. NAVAL RES RR CROSSING																					
09/13/73	5050		3.0	73	F																
0840			35	23	C																
		3																			
09/21/73	5050		6.8	69.8F																	
0615			76	21.0C																	
		3																			
B9 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT 48																					
09/13/73	5050		2.7	73	F		615													14AF	
0900	5050		31	23	C																
		3																			
09/13/73	5050		2.5	73	F		626													15AF	
0901	5050		29	23	C																
		30																			
09/21/73	5050		4.4	73	F		612													15AF	
0900	5050		51	23	C																
		3																			
09/21/73	5050		5.5	73	F		591													32AF	
0901	5050		64	23	C																
		30																			
B9 D 757.6 121.5 STOCKTON SHIP CHANNEL AT LIGHT 43																					
09/13/73	5050		2.7	73	F		593													12AF	
0825	5050		31	23	C																
		3																			
09/13/73	5050		2.3	73	F		602													17AF	
0826	5050		27	23	C																
		32																			
09/21/73	5050		3.7	73	F		623													17AF	
0830	5050		43	23	C																
		3																			
09/21/73	5050		3.3	73	F		621													23AF	
0831	5050		38	23	C																
		28																			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			TURB SAR	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCM
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																			
10/16/72	5001		3.5	64	F	7.3					0	118		74					13AF
1240	5001		37	18	C	7.4	526				.00	1.93		2.09				19.0	
		2																	
11/20/72	5001		5.7	52	F	7.2								115					10AF
0830	5001		52	11	C		736							3.24				20.0	
		2																	
12/18/72	5001		10.7	41	F	7.5								105					5AF
1115	5001		84	5	C		771							2.96				16.2	
01/22/73	5001		8.6	48	F	6.9					0	67		32					50AF
1130	5001		74	9	C	7.2	286				.00	1.10		.90				15.2	
		3																	
02/20/73	5001		8.2	54	F	7.4								36					40AF
1145	5001		76	12	C		357							1.02				16.0	
		2																	
03/06/73	5001		8.9	54	F	7.5					0	92		42					23AF
1115	5050		82	12	C	7.7	404				.00	1.51		1.18					210
		2																	
04/03/73	5001		10.1	55	F	7.8					0	101		56					18AF
1030	5050		96	13	C	7.6	518				.00	1.66		1.58					272
		1																	
05/01/73	5001		8.3	66	F	7.7					0	124		104					21AF
0900	5050		89	19	C	7.7	732				.00	2.03		2.93				17.2	388
		1																	
06/05/73	5001		10.9	77	F	8.8					0	74		54					28AF
1335	5050		131	25	C	7.8	390				.00	1.21		1.52				9.3	193
		2																	
07/02/73	5001		6.4	79	F	7.6					0	84		54					17AF
1310	5050		78	26	C	8.1	412				.00	1.38		1.52				4.6	195
		1					390												
07/31/73	5001		8.2	79	F	7.6					0	124		54					23AF
1120	5050		100	26	C	8.2	410				.00	2.03		1.52				2.0	209
		2					395												
08/28/73	5001		7.7	77.0F		8.3					10	75		58					23AF
1120	5050		92	25.0C		8.9	415				.33	1.23		1.64					207
		3					400												
09/25/73	5001		4.1	68	F	8.0					0	145		94					18AF
0900	5050		45	20	C	8.2	648				.00	2.38		2.65				13.2	328
		1					652												
89 D 758.7 123.0 STOCKTON SHIP CHANNEL AT LIGHT 40																			
09/13/73	5050		4.9	72	F														17AF
0750	5050		56	22	C		532												
		3																	
09/13/73	5050		4.6	72	F														24AF
0751	5050		52	22	C		525												
		33																	
09/21/73	5050		2.7	72	F														18AF
0800	5050		31	22	C		612												
		3																	
09/21/73	5050		3.0	72	F														20AF
0801	5050		34	22	C		610												
		30																	
89 D 759.1 123.6 STOCKTON SHIP CHANNEL AT LIGHT 36																			
09/13/73	5050		5.6	72	F														18AF
0735	5050		64	22	C		470												
		3																	
09/13/73	5050		5.7	72	F														25AF
0736	5050		65	22	C		460												
		33																	
09/21/73	5050		2.8	72	F														16AF
0750	5050		32	22	C		601												
		3																	
09/21/73	5050		4.6	72	F														17AF
0751	5050		52	22	C		606												
		31																	
89 D 759.6 125.9 STOCKTON SHIP CHANNEL AT LIGHT 24																			
09/13/73	5050		6.6	70	F														18AF
0715	5050		74	21	C		311												
		3																	
09/13/73	5050		6.5	70	F														25AF
0716	5050		72	21	C		303												
		32																	
09/21/73	5050		4.8	72	F														19AF
0725	5050		54	22	C		531												
		3																	
09/21/73	5050		4.8	72	F														22AF
0726	5050		54	22	C		518												
		28																	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABRATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER					MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					TDS SUM	TM NCM	TURB SAR		
											HCD3	SO4	CL	NO3	S				F	
R9 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																				
10/18/72	5001		8.2	64	F	7.8								41						18AF
1715	5001		86	18	C		293							1.16			15.6			
		3																		
11/06/72	5001		59.0F		F				23					31						112
1120	5050		15.0C		C		247		1.00					.87						
02/05/73	5001		50.0F		F				66					103						485
1100	5050		10.0C		C		759		2.87					2.90						
03/12/73	5001		9.5	55	F	7.6	580				0	110		86						414
1305	5050		90	13	C	7.8	710				.00	1.80		2.43			18.0			30A
		3																		
03/26/73	5001		9.3	57	F	7.5	865				0	128		100						439
1220	5050		90	14	C	7.7	792				.00	2.10		2.82			19.0			14AF
		3																		
04/09/73	5001		9.3	61	F	7.4	542				0	98		64						286
1220	5050		94	16	C	7.5	514				.00	1.61		1.80						19AF
		3																		
04/23/73	5001		10.5	63	F	8.0	375				0	93		39						306
1125	5050		108	17	C	7.1	378				.00	1.52		1.10			40.4			15AF
		3																		
05/07/73	5001		8.1	64	F	7.6	243				0	73		18						131
1050	5050		85	18	C	7.5	221				.00	1.20		.51			14.4			26AF
		3																		
05/07/73	5001		64.4F		F		221							18						139
1130	5050		18.0C		C				17					.51						
									.74											
05/25/73	5001		7.9	70	F	8.0	230				0	64		16						131
1305	5050		88	21	C	8.2	166				.00	1.05		.45			16.4			25AF
		3																		
06/08/73	5001		7.7	77	F	8.0	240				0	78		18						126
1255	5050		92	25	C	7.8	221				.00	1.28		.51			18.1			23AF
		3																		
06/22/73	5001		7.8	73	F	7.5	228				0	74		19						100
1135	5050		90	23	C	8.0	212				.00	1.21		.54						
		3																		
07/06/73	5001		7.8	75	F	7.8	430				0	75		69						218
1050	5050		92	24	C	8.2	420				.00	1.23		1.95						21AF
		3																		
07/23/73	5001		8.3	72	F	7.9	840				0	74		175						426
1210	5050		94	22	C	8.1	791				.00	1.21		4.94			15.2			26AF
		3																		
08/03/73	5001		8.0	73	F	7.9	685				0	72		145						356
1115	5050		93	23	C	8.0	667				.00	1.18		4.09			15.0			23AF
		3																		
08/06/73	5001						704							151						357
1135	5050								85					4.26						
									3.70											
08/20/73	5001		7.2	73.4F	F	7.6					0	74		76						228
1215	5050		83	23.0C	C	8.0	441				.00	1.21		2.14			16.4			22AF
		3																		
08/31/73	5001		7.4	70	F	7.9	480				6.0	70		85						251
1000	5050		82	21	C	8.8	474				.20	1.15		2.40			16.6			21AF
		3																		
09/17/73	5001		8.1	73	F	8.0	360				0	86		43						181
1055	5050		94	23	C	8.3	310				.00	1.41		1.21			16.2			19AF
		3																		
R9 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																				
10/18/72	5001		7.6	64	F	7.6								64						23AF
1815	5001		80	18	C		417							1.80			14.8			
		3																		
11/06/72	5001		59.0F		F				29					42						168
1100	5050		15.0C		C		293		1.26					1.18						
02/05/73	5001		50.0F		F				55					88						403
0850	5050		10.0C		C		652		2.39					2.48						
03/12/73	5001		9.5	55	F	7.5	620				0	123		87						412
1050	5050		90	13	C	7.7	722				.00	2.02		2.45			17.6			25AF
		3																		
03/26/73	5001		9.6	55	F	7.3	830				0	120		88						399
1000	5050		91	13	C	7.6	713				.00	1.97		2.48			17.4			15AF
		3																		
04/09/73	5001		9.2	63	F	7.7	593				0	110		71						307
1030	5050		95	17	C	7.5	577				.00	1.80		2.00			17.2			19AF
		3																		
04/23/73	5001		11.7	63	F	7.9	415				0	101		42						321
0915	5050		120	17	C	7.8	404				.00	1.66		1.18			18.4			16AF
		3																		
05/07/73	5001		8.3	63	F	7.9	287				0	84		25						150
0830	5050		85	17	C	7.6	266				.00	1.38		.71			13.4			22AF
		3																		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB
89 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE						CONTINUED													
05/08/73	5001			67.1F			--	--	22	--	--	--	24	--	--	--	168		
1310	5050			19.5C	270				.96				.68		--				
05/25/73	5001		7.9	8.0	360	--	--	--	--	0	82	--	18	--	--	--	146		30AF
1045	5050			8.0	259					.00	1.34		.51		15.6				
		3																	
06/08/73	5001		6.7	77 F	7.9	280	--	--	--	0	80	--	25	--	--	--	152		25AF
1020	5050		80	25 C	7.8	262				.00	1.31		.71		18.9				
		3																	
06/22/73	5001		7.6	75 F	7.8	285	--	--	--	0	80	--	34	--	--	--	160		31AF
0935	5050		89	24 C	8.0	293				.00	1.31		.96		--				
		3																	
07/06/73	5001		7.5	75 F	7.8	685	--	--	--	0	81	--	145	--	--	--	385		27AF
0910	5050		88	24 C	7.8	687				.00	1.33		4.09		--				
		3																	
07/23/73	5001		70	F	7.4	1420	--	--	--	0	79	--	291	--	--	--	680		30AF
1030	5050		21	C	8.2	1240				.00	1.29		8.21		14.8				
		3																	
08/03/73	5001		7.8	72 F	8.0	1195	--	--	--	0	79	--	280	--	--	--	623		31AF
0930	5050		89	22 C	8.0	1170				.00	1.29		7.90		14.4				
		3																	
08/06/73	5001					1240	--	--	180	--	--	--	287	--	--	--	657		
1055	5050								7.83				8.09		--				
08/20/73	5001		6.5	69.8F	7.5		--	--	--	0	84	--	210	--	--	--	498		
1000	5050		72	21.0C	8.1	959				.00	1.38		5.92		15.8				
		3																	
08/28/73	5001		69.8F			821	--	--	107	--	--	--	177	--	--	--	439		
1030	5050		21.0C						4.65				4.99		--				
08/31/73	5001		7.2	68 F	8.0	835	--	--	--	0	83	--	182	--	--	--	460		30AF
0740	5050		79	20 C	7.9	837				.00	1.36		5.13		16.4				
		3																	
09/17/73	5001		6.9	73 F	7.5	590	--	--	--	0	92	--	89	--	--	--	273		24AF
0915	5050		80	23 C	7.9	522				.00	1.51		2.51		17.0				
		3																	
89 D 801.1 142.6 BIG BREAK NEAR OAKLEY																			
10/04/72	5001		9.3	68 F	8.2		--	--	--	--	--	--	69	--	--	--			22AF
1645	5001		102	20 C		363							1.95		14.8				
		3																	
10/17/72	5001		8.2	64 F	7.2		--	--	--	0	75	--	50	--	--	--			18AF
1435	5001		86	18 C	7.6	317				.00	1.23		1.41		14.8				
		3																	
11/16/72	5001		9.6	55 F	7.7		--	--	--	0	73	--	42	--	--	--			28AF
1400	5001		91	13 C	7.6	280				.00	1.20		1.18		16.6				
		3																	
12/13/72	5001		12.4	45 F	7.7		--	--	--	0	78	--	27	--	--	--			15AF
1245	5001		102	7 C	7.7	259				.00	1.28		.76		19.8				
		3																	
01/15/73	5001		11.1	46 F	7.0		--	--	--	0	70	--	26	--	--	--			30AF
1335	5001		93	8 C	7.5	260				.00	1.15		.73		18.6				
		3																	
02/14/73	5001		9.9	52 F	7.5		--	--	--	0	79	--	--	--	--	--			45AF
1600	5001		89	11 C	7.5	380				.00	1.29				--				
		3																	
03/13/73	5001		10.1	54 F	7.9		--	--	--	0	82	--	40	--	--	--			26AF
1200	5050		93	12 C	7.7	380				.00	1.34		1.13		17.2				
		3																	
03/27/73	5001		10.0	57.2F	7.3	485	--	--	--	0	93	--	54	--	--	--			20AF
1140	5050		97	14.0C	7.6	477				.00	1.52		1.52		18.6				
		3																	
04/10/73	5001		9.5	62.6F	7.5	470	--	--	--	0	94	--	54	--	--	--			23AF
1230	5050		98	17.0C	7.5	438				.00	1.54		1.52		18.0				
		3																	
04/24/73	5001		10.7	62.6F	8.6	375	--	--	--	0	85	--	30	--	--	--			22AF
1015	5050		110	17.0C	7.8	302				.00	1.39		.85		14.6				
		3																	
05/08/73	5001		8.9	64.4F	8.0	260	--	--	--	0	98	--	23	--	--	--			19AF
1215	5050		93	18.0C	7.6	239				.00	1.61		.65		13.2				
		3																	
05/29/73	5001		8.5	71.6F	7.7	250	--	--	--	0	72	--	22	--	--	--			24AF
1600	5050		96	22.0C	7.7	225				.00	1.18		.62		19.8				
		3																	
06/11/73	5001		8.1	75.2F	7.8	254	--	--	--	0	75	--	26	--	--	--			23AF
1620	5050		95	24.0C	7.7	242				.00	1.23		.73		18.9				
		3																	
06/25/73	5001		8.5	75 F	7.9	350	--	--	--	0	81	--	54	--	--	--			26AF
1420	5050		100	24 C	8.1	312				.00	1.33		1.52		18.0				
		3																	
07/09/73	5001		8.1	77.0F	7.9	1090	--	--	--	0	79	--	270	--	--	--			21AF
1500	5050		97	25.0C	7.9	1140				.00	1.29		7.61		17.4				
		3																	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER			TURB SAR	
					LABORATORY PH	EC	MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH		
89 D 801.1 142.6 BIG BREAK NEAR DAKLEY							CONTINUED														
08/06/73	5001		8.8	71.6F	7.8	1118	--	--	--	--	0	77	--	260	--	--	--	614	32AF		
1415	5050		100	22.0C	8.2	1140					.00	1.26		7.33		16.2					
		3																			
08/21/73	5001		8.2	71.6F	7.5	710	--	--	--	--	0	82	--	168	--	--	438	28AF			
1130	5050		93	22.0C	7.9	777					.00	1.34		4.74		16.8					
		3																			
09/04/73	5001		7.9	69.8F	7.9	782	--	--	--	--	0	83	--	176	--	--	453	34AF			
1230	5050		88	21.0C	8.1	822					.00	1.36		4.96		17.0					
		3																			
09/18/73	5001		7.8	68.0F	7.9	344	--	--	--	--	1.0	83	--	53	--	--	201	23AF			
1135	5050		85	20.0C	8.5	365					.03	1.36		1.49		17.6					
		3																			
89 D 801.1 148.1 SAN JOAQUIN RIVER AT ANTIOCH																					
07/11/73	5050						--	--	--	--	--	--	--	642	--	--					
1145	5050					2470								18.10		--					
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL																					
10/04/72	5001		68	F	8.2		--	--	--	--	--	--	--	180	--	--		23AF			
1605	5001		20	C		788								5.08		13.4					
		3																			
10/17/72	5001		7.6	64	F	7.2	--	--	--	--	0	66	--	170	--	--		25AF			
1345	5001		80	18	C	7.5	714				.00	1.08		4.79		14.0					
		3																			
11/07/72	5001		58.1F				--	--	77	--	--	--	--	125	--	--	294				
0915	5050		14.5C			598			3.35					3.53		--					
11/16/72	5001		9.4	55	F	7.9	--	--	--	--	0	68	--	89	--	--		19AF			
1325	5001		89	13	C	7.6	426				.00	1.11		2.51		17.0					
		3																			
12/13/72	5001		11.4	45	F	7.5	--	--	--	--	0	78	--	35	--	--		16AF			
1210	5001		94	7	C	7.7	269				.00	1.28		.99		19.8					
		3																			
01/15/73	5001		10.7	46	F	6.9	--	--	--	--	0	48	--	10	--	--		65AF			
1245	5001		90	8	C	7.3	141				.00	.79		.28		14.0					
		3																			
02/06/73	5001		50.0F				--	--	24	--	--	--	--	39	--	--	206				
1000	5050		10.0C			334			1.04					1.10		--					
		3																			
02/14/73	5001		9.8	50	F	7.6	--	--	--	--	0	74	--	20	--	--		80A			
1515	5001		87	10	C	7.5	230				.00	1.21		.56		16.4					
		3																			
03/13/73	5001		10.0	57	F	8.0	--	--	--	--	0	78	--	30	--	--	178	25AF			
1113	5050		97	14	C	7.5	311				.00	1.28		.85		17.0					
		3																			
03/28/73	5001		10.2	55.4F	7.6	395	--	--	--	--	0	87	--	41	--	--	221	19AF			
1135	5050		96	13.0C	7.6	378					.00	1.43		1.16		18.2					
		3																			
04/10/73	5001		9.3	60.8F	7.2	400	--	--	--	--	0	93	--	41	--	--	200	16AF			
1115	5050		94	16.0C	7.5	372					.00	1.52		1.16		18.0					
		3																			
04/25/73	5001		11.1	62.6F	8.4	335	--	--	--	--	0	87	--	31	--	--	183				
1310	5050		114	17.0C	7.7	307					.00	1.43		.87		15.0					
		3																			
05/08/73	5001		9.0	62.6F	7.9	615	--	--	--	--	0	75	--	120	--	--	352	15AF			
1105	5050		93	17.0C	7.6	607					.00	1.23		3.38		13.0					
		3																			
05/08/73	5001		67.1F				--	--	88	--	--	--	--	134	--	--	361				
1310	5050		19.5C			682			3.83					3.78		--					
05/30/73	5001		8.3	69.8F	7.7	560	--	--	--	--	0	78	--	103	--	--	276	24AF			
1730	5050		92	21.0C	8.1	532					.00	1.28		2.90		18.0					
		3																			
06/11/73	5001		7.3	73.4F	7.7	552	--	--	--	--	0	78	--	110	--	--	297	33AF			
1510	5050		84	23.0C	7.8	537					.00	1.28		3.10		17.9					
		3																			
06/27/73	5001		7.5	75.2F	7.8	1550	--	--	--	--	0	73	--	391	--	--	805	35AF			
1615	5050		88	24.0C	7.9	1570					.00	1.20		11.03		16.8					
		3																			
07/09/73	5001		7.3	75.2F	7.7	2610	--	--	--	--	0	78	--	748	--	--	1470	30AF			
1355	5050		86	24.0C	7.7	2740					.00	1.28		21.09		16.4					
		3																			
08/06/73	5001		8.0	71.6F	7.4	3210	--	--	--	--	0	79	--	972	--	--	1890	30AF			
1320	5050		91	22.0C	8.1	3500					.00	1.29		27.41		14.6					
		3																			
08/07/73	5001		71.6F				--	--	350	--	--	--	--	632	--	--	1260				
1000	5050		22.0C			2160			15.23					17.82		--					
08/22/73	5001		7.8	69.8F	7.8	2340	--	--	--	--	0	81	--	659	--	--	1340	36AF			
1300	5050		87	21.0C	8.0	2360					.00	1.33		18.58		80.0					
		3																			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
						MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB	
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL						CONTINUED														
08/28/73 0930	5001 5050			69.8F 21.0C	2540	--	--	382	--	--	--	--	665	--	--	--	1420			
								16.62					18.75							
09/04/73 1140	5001 5050			7.2 79	68.0F 20.0C	7.3 7.9	2040 2170	--	--	--	0	84	514	--	--	16.0	1190	40AF		
		3									.00	1.38	14.49							
09/19/73 1130	5001 5050			7.8 85	68.0F 20.0C	8.0 8.0	749 778	--	--	--	0	86	164	--	--	17.2	395	32AF		
		3									.00	1.41	4.62							
89 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18																				
09/13/73 0645	5050 5050			5.7 62	68 F 20 C		220	--	--	--	--	--	--	--	--	--		20AF		
		3																		
09/13/73 0646	5050 5050			5.5 60	68 F 20 C		222	--	--	--	--	--	--	--	--	--		18AF		
		32																		
09/21/73 0635	5050 5050			6.5 74	72 F 22 C		336	--	--	--	--	--	--	--	--	--		19AF		
		3																		
09/21/73 0636	5050 5050			6.1 69	72 F 22 C		324	--	--	--	--	--	--	--	--	--		23AF		
		33																		
89 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)																				
10/04/72 1630	5001 5001			8.3 91	68 F 20 C	8.0	711	--	--	--	--	--	150	--	--	13.6		18AF		
		3											4.23							
10/17/72 1405	5001 5001			7.3 77	64 F 18 C	7.5 7.5	537	--	--	--	0	78	110	--	--	13.8		22AF		
		3									.00	1.28	3.10							
11/16/72 1345	5001 5001			8.8 85	57 F 14 C	7.7 7.5	385	--	--	--	0	71	69	--	--	16.8		17AF		
		3									.00	1.16	1.95							
12/13/72 1230	5001 5001			11.3 93	45 F 7 C	7.3 7.7	264	--	--	--	0	77	31	--	--	20.0		18AF		
		3									.00	1.26	.87							
01/15/73 1305	5001 5001			11.2 94	46 F 8 C	7.0 7.5	240	--	--	--	0	70	22	--	--	18.6		32AF		
		3									.00	1.15	.62							
02/14/73 1540	5001 5001			9.8 87	50 F 10 C	7.6 7.5	280	--	--	--	0	75	28	--	--	16.6		65AF		
		3									.00	1.23	.79							
03/13/73 1140	5001 5050			10.0 92	54 F 12 C	7.9 6.9	296	--	--	--	0	80	31	--	--	17.2	192	25AF		
		3									.00	1.31	.87							
03/27/73 1110	5001 5050			9.9 94	55.4F 13.0C	7.4 7.7	375 368	--	--	--	0	87	36	--	--	18.0	217	20AF		
		3									.00	1.43	1.02							
04/10/73 1155	5001 5050			9.4 95	60.8F 16.0C	7.4 7.8	412 391	--	--	--	0	91	47	--	--	18.2	225	18AF		
		3									.00	1.49	1.33							
04/24/73 0930	5001 5050			10.5 108	62.6F 17.0C	8.0 7.6	370 312	--	--	--	0	86	31	--	--	15.8	181	10AF		
		3									.00	1.41	.87							
05/08/73 1150	5001 5050			8.9 93	64.4F 18.0C	8.0 7.5	410 412	--	--	--	0	80	70	--	--	12.8	224	19AF		
		3									.00	1.31	1.97							
05/29/73 1530	5001 5050			7.6 85	69.8F 21.0C	7.6 7.5	435 413	--	--	--	0	75	69	--	--	17.8	214	28AF		
		3									.00	1.23	1.95							
06/11/73 1550	5001 5050			7.4 87	75.2F 24.0C	7.7 7.9	515 488	--	--	--	0	77	91	--	--	18.0	276	30AF		
		3									.00	1.26	2.57							
06/25/73 1340	5001 5050			7.8 90	73.4F 23.0C	7.4 8.0	820 860	--	--	--	0	82	187	--	--	438	30AF			
		3									.00	1.34	5.27							
07/09/73 1435	5001 5050			7.5 88	75.2F 24.0C	7.8 7.7	1840 1930	--	--	--	0	76	497	--	--	1020	29AF			
		3									.00	1.25	14.02							
08/06/73 1355	5001 5050			7.9 90	71.6F 22.0C	7.7 8.1	2355 2570	--	--	--	0	79	706	--	--	1410	25AF			
		3									.00	1.29	19.91							
08/21/73 1100	5001 5050			7.6 86	71.6F 22.0C	6.8 8.1	1540 1860	--	--	--	0	84	459	--	--	1010	32AF			
		3									.00	1.38	12.94							
09/04/73 1205	5001 5050			7.6 83	68.0F 20.0C	7.7 8.1	1550 1660	--	--	--	0	85	409	--	--	922	30AF			
		3									.00	1.39	11.53							
09/18/73 1100	5001 5050			7.6 83	68.0F 20.0C	7.4 8.1	698 716	--	--	--	0	87	149	--	--	409	26AF			
		3									.00	1.43	4.20							

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB		
89 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT						CONTINUED															
04/25/73	5001		10.6	62.6F	8.2	334	--	--	--	--	0	88	--	30	--	--	--	--	--	17AF	
1240	5050		109	17.0C	7.8	310					.00	1.44		.85				16.0			
		3																			
05/30/73	5001		8.3	69.8F	7.7	1060	--	--	--	--	0	78	--	218	--	--	--	--	--	28AF	
1705	5050		92	21.0C	8.2	967					.00	1.28		6.15				17.4			
		3																			
06/27/73	5001		7.9	75.2F	7.9	3300	--	--	--	--	0	79	--	1010	--	--	--	--	--	32AF	
1550	5050		93	24.0C	7.6	3350					.00	1.29		28.48				15.8			
		3																			
08/22/73	5001		8.5	69.8F	7.8	3950	--	--	--	--	0	81	--	1180	--	--	--	--	--	37AF	
1240	5050		95	21.0C	8.0	4420					.00	1.33		33.28				13.6			
		3																			
09/19/73	5001		7.9	68.0F	8.0	1320	--	--	--	--	0	86	--	355	--	--	--	--	--	38AF	
1110	5050		86	20.0C	7.9	1460					.00	1.41		10.01				16.8			
		3																			
89 D 802.0 135.6 FRANKS TRACT AT STATION 10																					
07/12/73	5050			75.0F		900	--	--	--	--	--	--	--	194	--	--	--	--	--		
1222	5050			23.9C		906								5.47							
07/12/73	5050			75.0F		900	--	--	--	--	--	--	--	211	--	--	--	--	--		
1749	5050			23.9C		945								5.95							
07/16/73	5050			70.0F		1060	--	--	--	--	--	--	--	263	--	--	--	--	--		
0816	5050			21.1C		1140								7.42							
07/16/73	5050			72.0F		990	--	--	--	--	--	--	--	232	--	--	--	--	--		
1504	5050			22.2C		1040								6.54							
89 D 802.1 135.2 FRANKS TRACT AT STATION 11																					
07/12/73	5050			77.0F		625	--	--	--	--	--	--	--	111	--	--	--	--	--		
1224	5050			25.0C		646								3.13							
07/12/73	5050			77.0F		850	--	--	--	--	--	--	--	176	--	--	--	--	--		
1753	5050			25.0C		845								4.96							
07/16/73	5050			69.5F		990	--	--	--	--	--	--	--	225	--	--	--	--	--		
0820	5050			20.8C		1040								6.35							
07/16/73	5050			72.5F		960	--	--	--	--	--	--	--	208	--	--	--	--	--		
1508	5050			22.5C		959								5.87							
89 D 802.3 135.9 FRANKS TRACT AT STATION 9																					
07/12/73	5050			75.0F		875	--	--	--	--	--	--	--	201	--	--	--	--	--		
1219	5050			23.9C		914								5.67							
07/12/73	5050			76.0F		925	--	--	--	--	--	--	--	204	--	--	--	--	--		
1747	5050			24.4C		948								5.75							
07/16/73	5050			70.0F		1000	--	--	--	--	--	--	--	239	--	--	--	--	--		
0813	5050			21.1C		1070								6.74							
07/16/73	5050			72.0F		1000	--	--	--	--	--	--	--	250	--	--	--	--	--		
1500	5050			22.2C		1100								7.05							
89 D 802.5 136.3 FRANKS TRACT AT STATION 8																					
07/12/73	5050			75.0F		1025	--	--	--	--	--	--	--	240	--	--	--	--	--		
1217	5050			23.9C		1040								6.77							
07/12/73	5050			76.0F		900	--	--	--	--	--	--	--	199	--	--	--	--	--		
1745	5050			24.4C		932								5.61							
07/16/73	5050			70.0F		950	--	--	--	--	--	--	--	232	--	--	--	--	--		
0808	5050			21.1C		1040								6.54							
07/16/73	5050			71.5F		940	--	--	--	--	--	--	--	223	--	--	--	--	--		
1457	5050			21.9C		1030								6.29							
89 D 802.6 136.6 FRANKS TRACT AT STATION 7																					
07/12/73	5050			74.0F		900	--	--	--	--	--	--	--	194	--	--	--	--	--		
1215	5050			23.3C		901								5.47							
07/12/73	5050			76.0F		900	--	--	--	--	--	--	--	200	--	--	--	--	--		
1743	5050			24.4C		940								5.64							
07/16/73	5050			70.0F		1000	--	--	--	--	--	--	--	242	--	--	--	--	--		
0806	5050			21.1C		1060								6.82							
07/16/73	5050			71.5F		990	--	--	--	--	--	--	--	250	--	--	--	--	--		
1454	5050			21.9C		1040								7.05							

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					TURB SAR
						MILLIEQUIVALENTS PER LITER										PERCENT REFRACTANCE VALUE					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TOS SUM	TM NCH			
B9 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																					
10/03/72 1655	5001 5001		8.7 95	68.0F 20.0C	7.9									51			22AF				
		3				327								1.44		15.6					
10/17/72 1625	5001 5001		8.5 89	64 F 18 C	7.7 7.6					0	70		43			20AF					
		3				287				.00	1.15		1.21		15.6						
11/15/72 1340	5001 5001		10.4 96	54 F 12 C	7.8 7.6					0	66		27			31AF					
		3				224				.00	1.08		.76		17.2						
12/12/72 1135	5001 5001		12.2 98	43 F 6 C	7.5 7.7					0	76		24			16AF					
		3				244				.00	1.25		.68		20.4						
02/13/73 1515	5001 5001		10.4 94	52 F 11 C	7.8 7.7					0	84		62			24AF					
		3				480				.00	1.38		1.75		18.0						
03/13/73 1330	5001 5050		10.0 92	54 F 12 C	7.8 7.7					0	82		42			23AF					
		3				392				.00	1.34		1.18		17.2	219					
03/27/73 1315	5001 5050		10.1 98	57.2F 14.0C	7.5 7.7					0	100		65			18AF					
		3				575 548				.00	1.64		1.83		18.4						
04/10/73 1430	5001 5050		10.2 105	62.6F 17.0C	7.7 7.6					0	90		48			15AF					
		3				472 439				.00	1.48		1.35		18.4						
04/24/73 1240	5001 5050		9.8 101	62.6F 17.0C	7.2 7.6					0	82		26			16AF					
		3				300 271				.00	1.34		.73		16.0						
05/08/73 1440	5001 5050		9.5 102	66.2F 19.0C	8.0 7.5					0	72		17			19AF					
		3				222 209				.00	1.18		.48		14.6						
05/29/73 1750	5001 5050		9.1 105	73.4F 23.0C	7.9 7.7					0	72		17			16AF					
		3				230 198				.00	1.18		.48		20.2						
06/11/73 1825	5001 5050		8.4 97	73.4F 23.0C	7.9 8.1					0	78		17			19AF					
		3				228 200				.00	1.28		.48								
06/26/73 1750	5001 5050		8.6 103	77.0F 25.0C	7.9 8.1					0	74		33			26AF					
		3				290 270				.00	1.21		.93		18.2						
07/09/73 1700	5001 5050		9.4 115	78.8F 26.0C	8.1 8.1					0	78		159			18AF					
		3				721 766				.00	1.28		4.48		18.0						
08/06/73 1545	5001 5050		8.7 99	71.6F 22.0C	7.9 7.8					0	78		123			25AF					
		3				575 614				.00	1.28		3.47		16.6						
08/21/73 1335	5001 5050		8.9 101	71.6F 22.0C	7.7 8.2					0	78		106			14AF					
		3				500 548				.00	1.28		2.99		17.0						
09/04/73 1445	5001 5050		8.2 91	69.8F 21.0C	7.8 8.0					0	80		94			24AF					
		3				455 496				.00	1.31		2.65		17.4						
09/18/73 1320	5001 5050		8.8 96	68.0F 20.0C	8.0 7.8					0	84		38			19AF					
		3				292 301				.00	1.38		1.07		17.6						
B9 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																					
10/03/72 1435	5001 5001		8.5 93	68.0F 20.0C	8.0								190			25AF					
		3				757							5.36		13.6						
10/18/72 1505	5001 5001		8.2 88	66 F 19 C	7.7 7.5					0	90		140			20AF					
		3				705				.00	1.48		3.95		14.2						
11/15/72 1150	5001 5001		9.5 90	55 F 13 C	7.8 7.5					0	68		55			23AF					
		3				322				.00	1.11		1.55		17.0						
12/12/72 0950	5001 5001		11.2 92	45 F 7 C	7.6 7.6					0	75		32			18AF					
		3				264				.00	1.23		.90		19.8						
02/13/73 1320	5001 5001		10.1 91	52 F 11 C	7.7 7.5					0	75		9.0			90AF					
		3				205				.00	1.23		.25		15.8						
03/15/73 1330	5001 5050		10.9 101	54 F 12 C	7.9 7.5					0	76		13			34AF					
		3				202				.00	1.25		.37		18.6						
03/29/73 1150	5001 5050		10.4 98	55.4F 13.0C	7.6 7.6					0	85		29			27AF					
		3				321 304				.00	1.39		.82		19.4						
04/12/73 1225	5001 5050		9.4 95	60.8F 16.0C	7.7 7.7					0	91		33			27AF					
		3				368 343				.00	1.49		.93		18.4						
04/26/73 1125	5001 5050		12.6 130	62.6F 17.0C	8.5 7.7					0	85		25			13AF					
		3				320 275				.00	1.39		.71		15.8						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER										MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH						CONTINUED														
05/10/73 1150	5001 5050	3	9.5 100	64.4F 18.0C	8.1 7.7	615 590	--	--	--	--	0 .00	82 1.34	--	117 3.30	--	--	--	13.2	14AF	
05/31/73 1650	5001 5050	3	8.6 94	68.0F 20.0C	7.7 7.9	475 464	--	--	--	--	0 .00	77 1.26	--	80 2.26	--	--	--	18.8	28AF	
06/13/73 1700	5001 5050	3	7.8 89	71.6F 22.0C	7.7 8.1	680 673	--	--	--	--	0 .00	86 1.41	--	132 3.72	--	--	--	18.9	42AF	
06/26/73 1450	5001 5050	3	7.9 93	75.2F 24.0C	7.8 7.9	1950 1140	--	--	--	--	0 .00	71 1.16	--	280 7.90	--	--	--	17.8	60AF	
07/11/73 1620	5001 5050	3	8.2 95	73.4F 23.0C	7.8 8.3	1468 1090	--	--	--	--	0 .00	73 1.20	--	253 7.13	--	--	--	17.4	29AF	
08/08/73 1440	5001 5050	3	8.4 94	69.8F 21.0C	7.9 8.2	2260 2540	--	--	--	--	0 .00	78 1.28	--	706 19.91	--	--	--	15.6	50AF	
08/23/73 1400	5001 5050	3	8.3 92	69.8F 21.0C	7.9 8.0	2040 2040	--	--	--	--	0 .00	80 1.31	--	565 15.93	--	--	1140	15.8	45AF	
09/06/73 1350	5001 5050	3	6.8 74	68.0F 20.0C	8.0 8.3	1240 1220	--	--	--	--	0 .00	86 1.41	--	291 8.21	--	--	--	16.8	35AF	
09/20/73 1200	5001 5050	3	7.1 78	68.0F 20.0C	7.8 7.8	621 755	--	--	--	--	0 .00	87 1.43	--	154 4.34	--	--	--	17.4	33AF	
89 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																				
10/16/72 1105	5001 5001	3	7.4 75	61 F 16 C	7.4 7.5	167	--	--	--	--	0 .00	73 1.20	--	8.0 .23	--	--	--	16.8	26AF	
11/21/72 0830	5001 5001	3	6.4 57	50 F 10 C	7.3 7.3	330	--	--	--	--	--	--	--	34 .96	--	--	--	18.2	40AF	
12/19/72 1055	5001 5001	3	10.8 89	45 F 7 C	7.5 7.5	448	--	--	--	--	--	--	--	56 1.58	--	--	--	22.0	18AF	
01/22/73 1020	5001 5001	3	8.5 70	45 F 7 C	6.9 7.3	227	--	--	--	--	0 .00	70 1.15	--	18 .51	--	--	--	18.4	80AF	
02/20/73 1025	5001 5001	3	6.6 61	54 F 12 C	7.3 7.3	272	--	--	--	--	--	--	--	22 .62	--	--	--	19.8	36AF	
03/06/73 0940	5001 5050	3	7.4 68	54 F 12 C	7.5 6.9	168	--	--	--	--	0 .00	66 1.08	--	8.5 .24	--	--	--	--	55AF	
04/03/73 0910	5001 5050	2	12.3 116	55 F 13 C	8.0 7.3	419 397	--	--	--	--	0 .00	106 1.74	--	44 1.24	--	--	--	--	35AF	
05/01/73 0720	5001 5050	3	8.5 89	64 F 18 C	7.7 7.4	248 243	--	--	--	--	0 .00	91 1.49	--	20 .56	--	--	--	8.2	18AF	
06/05/73 1200	5001 5050	3	8.4 97	73 F 23 C	7.9 7.9	220 204	--	--	--	--	0 .00	79 1.29	--	14 .39	--	--	--	5.9	34AF	
07/02/73 1110	5001 5050	3	9.3 113	79 F 26 C	7.8 8.0	235 212	--	--	--	--	0 .00	86 1.41	--	18 .51	--	--	--	4.6	34AF	
07/31/73 0950	5001 5050	3	7.9 95	77 F 25 C	7.9 8.3	260 238	--	--	--	--	0 .00	92 1.51	--	20 .56	--	--	--	2.4	27AF	
08/28/73 1000	5001 5050	3	7.0 81	73.4F 23.0C	8.2 8.1	219 205	--	--	--	--	0 .00	88 1.44	--	13 .37	--	--	--	6.2	36AF	
09/25/73 0740	5001 5050	3	6.8 71	64 F 18 C	7.9 8.0	189 190	--	--	--	--	0 .00	83 1.36	--	11 .31	--	--	--	13.4	31AF	
89 D 802.8 137.0 FRANKS TRACT AT STATION 6																				
07/12/73 1207	5050 5050		74.0F 23.3C			925 870	--	--	--	--	--	--	--	193 5.44	--	--	--	--		
07/12/73 1741	5050 5050		76.0F 24.4C			900 948	--	--	--	--	--	--	--	199 5.61	--	--	--	--		
07/16/73 0802	5050 5050		70.0F 21.1C			1000 1060	--	--	--	--	--	--	--	221 6.23	--	--	--	--		
07/16/73 1453	5050 5050		71.5F 21.9C			850 938	--	--	--	--	--	--	--	205 5.78	--	--	--	--		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
						MILLIEQUIVALENTS PER LITER										PERCENT REFRACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB	
												SUM	NCH	SAR						
B9 D 802.9 137.3 FRANKS TRACT AT STATION 5																				
07/12/73	5050			74.0F	850	--	--	--	--	--	--	221	--	--						
1205	5050			23.3C	1020							6.23								
07/12/73	5050			75.0F	1075	--	--	--	--	--	--	251	--	--						
1739	5050			23.9C	1110							7.08								
07/16/73	5050			70.0F	1090	--	--	--	--	--	--	261	--	--						
0755	5050			21.1C	1150							7.36								
07/16/73	5050			71.5F	860	--	--	--	--	--	--	204	--	--						
1449	5050			21.9C	946							5.75								
B9 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																				
10/04/72	5001		8.8	68 F	8.3	--	--	--	--	--	--	79	--	--						
1710	5001		96	20 C	426							2.23		14.0	20AF					
		3																		
10/17/72	5001		8.0	64 F	7.6	--	--	--	--	0	75	58	--	--						
1450	5001		84	18 C	350					.00	1.23	1.64		14.6	20AF					
		3																		
11/06/72	5001		58.1F			--	--	25	--	--	--	36	--	--	134					
1015	5050		14.5C		256			1.09				1.02								
11/16/72	5001		9.5	55 F	7.7	--	--	--	--	0	70	41	--	--						
1425	5001		90	13 C	280					.00	1.15	1.16		16.8	18AF					
		3																		
12/13/72	5001		12.2	43 F	7.5	--	--	--	--	0	78	24	--	--						
1310	5001		98	6 C	244					.00	1.28	.68		20.4	18AF					
		3																		
01/15/73	5001		11.2	46 F	7.0	--	--	--	--	0	70	26	--	--						
1355	5001		94	8 C	260					.00	1.15	.73		18.4	37AF					
		3																		
02/05/73	5001		50.0F			--	--	24	--	--	--	37	--	--	211					
1030	5050		10.0C		336			1.04				1.04								
		3																		
02/14/73	5001		9.8		7.5	--	--	--	--	0	72	30	--	--						
1630	5001				7.5					.00	1.18	.85		16.4	55AF					
		3																		
03/13/73	5001		10.1	54 F	7.8	--	--	--	--	0	78	33	--	--	185					
1230	5050		93	12 C	325					.00	1.28	.93		17.0	26AF					
		3																		
03/27/73	5001		10.1	55.4F	7.4	--	--	--	--	0	89	43	--	--	244					
1205	5050		96	13.0C	413					.00	1.46	1.21		18.4	20AF					
		3																		
04/10/73	5001		9.6	59.0F	7.5	--	--	--	--	0	87	36	--	--	200					
1255	5050		95	15.0C	395					.00	1.43	1.02		18.4	17AB					
		3			353															
04/24/73	5001		11.0	60.8F	7.6	--	--	--	--	0	84	24	--	--	157					
1050	5050		111	16.0C	310					.00	1.38	.68		16.2	17AF					
		3			270															
05/08/73	5001		9.2	64.4F	8.0	--	--	--	--	0	75	18	--	--	131					
1255	5050		97	18.0C	235					.00	1.23	.51		14.2	13AF					
		3			220															
05/08/73	5001		65.3F			--	--	25	--	--	--	31	--	--	163					
1320	5050		18.5C		280			1.09				.87								
		3																		
05/29/73	5001		7.8	71.6F	7.7	--	--	--	--	0	74	28	--	--	140					
1625	5050		89	22.0C	260					.00	1.21	.79		19.4	26AF					
		3			246															
06/11/73	5001		7.9	73.4F	7.8	--	--	--	--	0	77	33	--	--	159					
1650	5050		91	23.0C	302					.00	1.26	.93		18.8	23AF					
		3			287															
06/27/73	5001		7.8	77.0F	8.0	--	--	--	--	0	77	112	--	--	323					
1645	5050		94	25.0C	550					.00	1.26	3.16		17.8	27AF					
		3			590															
07/09/73	5001		7.5	77.0F	7.8	--	--	--	--	0	78	378	--	--	757					
1530	5050		90	25.0C	1420					.00	1.28	10.66		17.4	23AF					
		3			1470															
08/06/73	5001					--	--	118	--	--	--	187	--	--	421					
1030	5050				841			5.13				5.27								
		3																		
08/06/73	5001		8.5	71.6F	7.9	--	--	--	--	0	76	308	--	--	688					
1445	5050		96	22.0C	1205					.00	1.25	8.69		16.4	23AF					
		3			1300															
08/21/73	5001		8.1	71.6F	7.7	--	--	--	--	0	81	75	--	--	472					
1205	5050		92	22.0C	750					.00	1.33	2.12		16.8	29AF					
		3			859															
08/28/73	5001		68.0F			--	--	173	--	--	--	310	--	--	713					
0845	5050		20.0C		1310			7.53				8.74								
		3																		
09/04/73	5001		7.9	68.0F	7.9	--	--	--	--	0	82	196	--	--	488					
1305	5050		86	20.0C	835					.00	1.34	5.53		17.2	25AF					
		3			886															

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HC03	504	CL	N03	B	F	TDS SUM	TH NCH	TURB SAR	
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT						CONTINUED														
09/18/73 1200	5001 5050		8.5 93	68.0F 20.0C	8.0 8.1	367 385	--	--	--	--	0 .00	85 1.39	--	58 1.64	--	--	209		22AF	
89 D 803.7 136.1 FALSE RIVER AT WEBB PUMP																				
11/06/72 0940	5001 5050		58.1F 14.5C			243	--	--	23 1.00	--	--	--	32 .90	--	--	131				
02/05/73 0940	5001 5050		50.0F 10.0C			387	--	--	28 1.22	--	--	--	43 1.21	--	--	253				
05/07/73 1130	5001 5050		64.4F 18.0C			206	--	--	14 .61	--	--	--	15 .42	--	--	134				
08/06/73 0945	5001 5050					426	--	--	49 2.13	--	--	--	75 2.12	--	--	225				
08/28/73 0940	5001 5050		69.8F 21.0C			535	--	--	64 2.78	--	--	--	103 2.90	--	--	304				
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																				
10/18/72 1450	5001 5001		8.3 87	64 F 18 C	7.7	798	--	--	--	--	--	--	180 5.08	--	--	14.4		27AF		
03/15/73 1315	5001 5050		10.8 98	52 F 11 C	8.0 7.2	204	--	--	--	0 .00	78 1.28	--	13 .37	--	--	18.4		123 30AF		
03/29/73 1125	5001 5050		10.6 98	53.6F 12.0C	7.6 7.7	315 287	--	--	--	0 .00	87 1.43	--	26 .73	--	--	19.8		175 29AF		
04/12/73 1205	5001 5050		9.5 94	59.0F 15.0C	7.6 7.7	328 292	--	--	--	0 .00	92 1.51	--	25 .71	--	--	18.6		156 19AF		
04/26/73 1100	5001 5050		11.1 112	60.8F 16.0C	8.5 7.7	280 256	--	--	--	0 .00	84 1.38	--	23 .65	--	--	16.6		152 11AF		
05/10/73 1110	5001 5050		9.1 96	64.4F 18.0C	8.0 7.9	850 816	--	--	--	0 .00	83 1.36	--	181 5.10	--	--	13.0		451 21AF		
05/31/73 1600	5001 5050		8.3 91	68.0F 20.0C	7.6 8.0	575 545	--	--	--	0 .00	78 1.28	--	115 3.24	--	--	18.8		283 33AF		
06/13/73 1630	5001 5050		8.0 89	69.8F 21.0C	7.8 8.0	835 808	--	--	--	0 .00	78 1.28	--	173 4.88	--	--	18.8		450 50AF		
06/26/73 1415	5001 5050		7.9 91	73.4F 23.0C	7.9 8.2	1080 1100	--	--	--	0 .00	79 1.29	--	255 7.19	--	--	17.6		564 45AF		
07/11/73 1555	5001 5050		8.0 92	73.4F 23.0C	7.9 8.3	3562 3890	--	--	--	0 .00	80 1.31	--	1170 32.99	--	--	15.2		2090 32AF		
08/08/73 1420	5001 5050		9.2 101	68.0F 20.0C	8.1 8.2	4120 4700	--	--	--	0 .00	80 1.31	--	1500 42.30	--	--	13.2		2690 50AF		
08/23/73 1340	5001 5050		8.2 90	68.0F 20.0C	7.9 8.0	3520 3810	--	--	--	0 .00	80 1.31	--	1070 30.17	--	--	14.4		2040 60AF		
09/06/73 1335	5001 5050		6.6 72	68.0F 20.0C	8.0 8.2	2120 2250	--	--	--	0 .00	84 1.38	--	612 17.26	--	--	16.2		1260 35AF		
09/20/73 1140	5001 5050		7.1 78	68.0F 20.0C	7.9 8.0	689 722	--	--	--	0 .00	85 1.39	--	150 4.23	--	--	17.6		355 35AF		
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																				
10/03/72 1630	5001 5001		8.2 88	66.2F 19.0C	7.7	224	--	--	--	--	--	--	26 .73	--	--	16.2		18AF		
10/17/72 1555	5001 5050		8.2 86	64 F 18 C	7.6 7.4	206	--	--	--	0 .00	66 1.08	--	23 .65	--	--	16.4		19AF		
11/15/72 1405	5001 5001		10.3 95	54 F 12 C	7.7 7.6	187	--	--	--	0 .00	66 1.08	--	15 .42	--	--	17.8		16AF		
12/12/72 1200	5001 5001		11.8 95	43 F 6 C	7.7 7.7	214	--	--	--	0 .00	74 1.21	--	17 .48	--	--	20.2		15AF		
02/13/73 1550	5001 5001		9.6 87	52 F 11 C	7.5 7.5	275	--	--	--	0 .00	75 1.23	--	32 .90	--	--	16.2		45AF		
03/13/73 1400	5001 5050		9.6 89	54 F 12 C	7.8 7.7	348	--	--	--	0 .00	79 1.29	--	36 1.02	--	--	16.8		194 24AF		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER			TURB SAR		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	S	F	TDS SUM	TH NCM			
B9 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT						CONTINUED															
03/27/73 1255	5001 5050		10.1 96	55.4F 13.0C	7.3 7.6	430 421	--	--	--	--	0 .00	89 1.46	--	48 1.35	--	--	--	253		24AF	
		3																			
04/10/73 1405	5001 5050		9.4 95	60.8F 16.0C	7.4 7.6	372 351	--	--	--	--	0 .00	84 1.38	--	36 1.02	--	--	--	199		14AF	
		3																			
04/24/73 1205	5001 5050		9.5 96	60.8F 16.0C	7.5 7.6	266 239	--	--	--	--	0 .00	76 1.25	--	21 .59	--	--	--	146		15AF	
		3																			
05/08/73 1410	5001 5050		8.4 88	64.4F 18.0C	7.8 7.5	205 188	--	--	--	--	0 .00	67 1.10	--	16 .45	--	--	--	116		22AF	
		3																			
05/29/73 1725	5001 5050			69.8F 21.0C	7.6 7.7	210 181	--	--	--	--	0 .00	71 1.16	--	12 .34	--	--	--	108		15AF	
		3																			
06/11/73 1755	5001 5050		7.8 90	73.4F 23.0C	7.7 7.9	203 160	--	--	--	--	0 .00	73 1.20	--	13 .37	--	--	--	106		16AF	
		3																			
06/26/73 1720	5001 5050		8.2 97	75.2F 24.0C	7.8 7.9	195 196	--	--	--	--	0 .00	70 1.15	--	16 .45	--	--	--	112		18AF	
		3																			
07/09/73 1630	5001 5050		8.1 97	77.0F 25.0C	7.8 7.8	355 373	--	--	--	--	0 .00	72 1.18	--	58 1.64	--	--	--	190		18AF	
		3																			
08/06/73 1620	5001 5050		8.4 97	73.4F 23.0C	8.0 8.2	277 309	--	--	--	--	0 .00	74 1.21	--	37 1.04	--	--	--	153		17AF	
		3																			
08/21/73 1310	5001 5050		7.8 90	73.4F 23.0C	7.9 8.2	223 235	--	--	--	--	0 .00	80 1.31	--	25 .71	--	--	--	132		15AF	
		3																			
09/04/73 1415	5001 5050		8.0 89	69.8F 21.0C	7.9 8.2	238 230	--	--	--	--	0 .00	84 1.38	--	21 .59	--	--	--	130		16AF	
		3																			
09/18/73 1300	5001 5050		8.3 92	69.8F 21.0C	7.9 7.9	200 208	--	--	--	--	0 .00	84 1.38	--	14 .39	--	--	--	125		12AF	
		3																			
B9 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON																					
10/18/72 1530	5001 5001		8.5 89	64 F 18 C	7.7	248	--	--	--	--	--	--	--	34 .96	--	--	--	16.0		18AF	
		3																			
11/08/72 0920	5001 5050			57.2F 14.0C		203	--	--	18 .78	--	--	--	--	22 .62	--	--	--	119			
02/07/73 1510	5001 5050			50.0F 10.0C		202	--	--	12 .52	--	--	--	--	12 .34	--	--	--	124			
03/15/73 1400	5001 5050		10.8 100	54 F 12 C	8.0 6.9	216	--	--	--	--	0 .00	86 1.41	--	12 .34	--	--	--	120		38AF	
		3																			
03/29/73 1225	5001 5050		10.7 101	55.4F 13.0C	7.6 7.7	240 222	--	--	--	--	0 .00	87 1.43	--	14 .39	--	--	--	134		18AF	
		3																			
04/12/73 1300	5001 5050		9.5 96	60.8F 16.0C	7.7 7.7	290 268	--	--	--	--	0 .00	91 1.49	--	21 .59	--	--	--	160		23AF	
		3																			
04/26/73 1205	5001 5050		11.8 124	64.4F 18.0C	8.4 7.7	250 229	--	--	--	--	0 .00	83 1.36	--	17 .48	--	--	--	136		11AF	
		3																			
05/09/73 0910	5001 5050			64.4F 18.0C		288	--	--	25 1.09	--	--	--	--	35 .99	--	--	--	174			
05/10/73 1220	5001 5050		9.3 98	64.4F 18.0C	8.1 7.7	287 291	--	--	--	--	0 .00	76 1.25	--	36 1.02	--	--	--	166		13AF	
		3																			
05/31/73 1720	5001 5050		8.6 94	68.0F 20.0C	7.7 8.6	280 262	--	--	--	--	6.0 .20	67 1.10	--	32 .90	--	--	--	160		18AF	
		3																			
06/13/73 1730	5001 5050		8.3 92	69.8F 21.0C	7.9 8.0	269 437	--	--	--	--	0 .00	80 1.31	--	70 1.97	--	--	--	227		26AF	
		3																			
06/26/73 1520	5001 5050		8.2 95	73.4F 23.0C	7.8 8.2	300 280	--	--	--	--	0 .00	75 1.23	--	38 1.07	--	--	--	163		25AF	
		3																			
07/11/73 1650	5001 5050		8.3 96	73.4F 23.0C	7.9 8.1	486 529	--	--	--	--	0 .00	70 1.15	--	100 2.82	--	--	--	283		20AF	
		3																			
08/08/73 0915	5001 5050			69.8F 21.0C		472	--	--	50 2.18	--	--	--	--	33 .93	--	--	--	243			
08/08/73 1505	5001 5050		8.7 97	69.8F 21.0C	8.0 8.2	594 1160	--	--	--	--	0 .00	75 1.23	--	265 7.47	--	--	--	604		50AF	
		3																			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER			TURB SAR		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCM	
																				5102
B9 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON						CONTINUED														
08/23/73 1410	5001 5050	3	8.7 95	68.0F 20.0C	7.9 8.1	722 554	--	--	--	--	0 .00	79 1.29	--	107 3.02	--	--	--	17.6	315	27AF
09/06/73 1430	5001 5050	3	7.1 78	68.0F 20.0C	8.2 8.3	354 546	--	--	--	--	0 .00	86 1.41	--	98 2.76	--	--	--	18.6	276	20AF
09/20/73 1230	5001 5050	3	7.9 86	68.0F 20.0C	7.9 8.1	321 342	--	--	--	--	0 .00	86 1.41	--	46 1.30	--	--	--	18.2	184	22AF
B9 D 805.2 124.1 WHITE SLOUGH AT RIO BLANCO TRACT																				
10/16/72 1020	5001 5001	3	3.6 37	63 17	F C	7.4 7.5	544	--	--	--	--	0 .00	173 2.84	--	56 1.5A	--	--	50.0		15AF
11/21/72 0920	5001 5001	3	3.0 28	54 12	F C	7.1	560	--	--	--	--	--	--	--	55 1.55	--	--	39.0		15AF
02/20/73 0935	5001 5001	3	4.0 37	54 12	F C	6.9	735	--	--	--	--	--	--	--	80 2.26	--	--	36.0		20AF
04/03/73 0820	5001 5050	3	7.4 70	55 13	F C	7.3 7.5	829 754	--	--	--	--	0 .00	206 3.38	--	8A 2.48	--	--	--		16AF
05/01/73 0620	5001 5050	3	7.7 81	64 18	F C	7.5 7.4	270 265	--	--	--	--	0 .00	100 1.64	--	22 .62	--	--	15.2		22AF
06/05/73 1030	5001 5050	3	6.8 79	73 23	F C	7.9 7.9	350 295	--	--	--	--	0 .00	119 1.95	--	23 .65	--	--	13.1		28AF
07/02/73 0945	5001 5050	3	3.4 41	77 25	F C	7.4 8.2	370 373	--	--	--	--	0 .00	141 2.31	--	33 .93	--	--	16.8		17AF
07/31/73 0845	5001 5050	3	0.9 11	77 25	F C	7.6 8.0	380 422	--	--	--	--	0 .00	164 2.69	--	37 1.04	--	--	14.8		11AF
08/28/73 0855	5001 5050	3	2.9 32	69.8F 21.0C	7.7 8.7	495 427	--	--	--	--	13 .43	156 2.56	--	3A 1.07	--	--	25.6		13AF	
09/25/73 0645	5001 5050	3	2.1 22	64 18	F C	7.7 8.5	420 493	--	--	--	--	3.0 .10	196 3.21	--	41 1.16	--	--	29.6		11AF
B9 D 805.2 126.0 WHITE SLOUGH NEAR LODI																				
10/17/72 1015	5001 5001	1	6.4 67	64 18	F C	7.6 7.5	255	--	--	--	--	0 .00	97 1.59	--	19 .54	--	--	21.2		11AF
11/21/72 1015	5001 5001	2	8.5 77	52 11	F C	7.6	330	--	--	--	--	--	--	--	39 1.10	--	--	21.2		10AF
11/21/72 1350	5001 5001	1	8.4 76	52 11	F C	7.8	290	--	--	--	--	--	--	--	--	--	--	--		12AF
12/19/72 1145	5001 5001	3	11.9 98	45 7	F C	7.6	279	--	--	--	--	--	--	--	32 .90	--	--	22.4		7AF
01/23/73 1010	5001 5001	3	8.5 72	46 8	F C	7.2 7.7	400	--	--	--	--	0 .00	90 1.48	--	54 1.52	--	--	17.4		50AF
03/06/73 0835	5001 5050	3	8.0 74	54 12	F C	7.5 7.6	528	--	--	--	--	0 .00	127 2.08	--	74 2.09	--	--	--		20AF
B9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND																				
10/17/72 1525	5001 5001	3	8.2 86	64 18	F C	7.6	262	--	--	--	--	--	--	--	36 1.02	--	--	15.6		17AF
11/09/72 1035	5001 5050			59.0F 15.0C			249	--	--	24 1.04	--	--	--	--	34 .96	--	--	--	128	
03/13/73 1300	5001 5050	3	10.1 91	52 11	F C	7.8 7.6	258	--	--	--	--	0 .00	76 1.25	--	23 .65	--	--	17.2		30AF
03/27/73 1225	5001 5050	3	10.0 95	55.4F 13.0C	7.4 7.7	350 337	--	--	--	--	0 .00	80 1.31	--	34 .96	--	--	18.0		202	30AF
04/10/73 1320	5001 5050	3	9.8 99	60.8F 16.0C	7.5 7.5	328 300	--	--	--	--	0 .00	84 1.38	--	30 .85	--	--	18.6		168	14AF
04/24/73 1118	5001 5050	3	10.6 107	60.8F 16.0C	7.6 7.8	277 247	--	--	--	--	0 .00	82 1.34	--	20 .56	--	--	16.8		150	
05/08/73 1330	5001 5050	3	9.0 95	64.4F 18.0C	7.9 7.6	215 448	--	--	--	--	0 .00	51 .84	--	82 2.31	--	--	15.4		259	20AF

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. D DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUF					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	S	F	TDS SUM	TH NCM	TURB SAR
B9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND CONTINUED																			
05/09/73 1035	5001 5050			64.4F 18.0C		203	--	--	14 .61	--	--	--	15 .42	--	--	131			
05/29/73 1655	5001 5050	3	8.2 91	69.8F 21.0C	7.7 235 7.7 212			--	--	0 .00	73 1.20	--	19 .54	--	20.0	123	17AF		
06/11/73 1720	5001 5050	3	8.0 92	73.4F 23.0C	7.8 255 7.8 235			--	--	0 .00	76 1.25	--	24 .68	--	19.0	139	22AF		
06/26/73 1645	5001 5050	3	8.1 94	73.4F 23.0C	7.8 360 8.0 366			--	--	0 .00	75 1.23	--	56 1.58	--	18.4	193	25AF		
07/09/73 1550	5001 5050	3	8.1 95	75.2F 24.0C	7.9 835 8.0 869			--	--	0 .00	76 1.25	--	191 5.39	--	18.0	447	22AF		
08/06/73 1510	5001 5050	3	8.5 96	71.6F 22.0C	7.9 759 8.3 814			--	--	0 .00	75 1.23	--	164 4.62	--	17.0	435	22AF		
08/08/73 0940	5001 5050			75.2F 24.0C		502	--	--	62 2.70	--	--	--	95 2.68	--	--	264			
08/21/73 1230	5001 5050	3	8.3 94	71.6F 22.0C	7.8 594 8.2 651			--	--	0 .00	78 1.28	--	136 3.84	--	17.2	339	24AF		
08/29/73 1000	5001 5050			71.6F 22.0C		602	--	--	72 3.13	--	--	--	121 3.41	--	--	325			
09/04/73 1335	5001 5050	3	7.7 84	68.0F 20.0C	7.9 542 8.1 658			--	--	0 .00	83 1.36	--	134 3.78	--	17.8	371	25AF		
09/18/73 1220	5001 5050	3	8.2 90	68.0F 20.0C	8.0 283 8.0 293			--	--	0 .00	86 1.41	--	35 .99	--	17.8	166	17AF		
B9 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																			
11/08/72 1120	5001 5050			56.3F 13.5C		145	--	--	8.7 .38	--	--	--	9.5 .27	--	--	70			
02/07/73 1105	5001 5050			51.8F 11.0C		201	--	--	11 .48	--	--	--	17 .48	--	--	134			
03/07/73 1500	5001 5050	3	10.9 101	54 F 12 C	7.3 270 7.5			--	--	0 .00	67 1.10	--	35 .99	--	16.0	128	26AF		
04/04/73 1030	5001 5050	3	10.3 97	55 F 13 C	7.6 210 7.4 174			--	--	0 .00	67 1.10	--	13 .37	--	--	107	18AF		
05/02/73 0900	5001 5050	3	8.6 89	63 F 17 C	7.1 158 7.6 146			--	--	0 .00	61 1.00	--	9.2 .26	--	17.6	91	14AF		
05/09/73 1215	5001 5050			65.3F 18.5C		151	--	--	9.2 .40	--	--	--	7.4 .21	--	--	98			
06/06/73 1210	5001 5050	3	7.5 87	73 F 23 C	7.5 180 7.9 170			--	--	0 .00	70 1.15	--	13 .37	--	18.3	102	20AF		
07/03/73 1150	5001 5050	3	7.5 88	75 F 24 C	7.7 190 7.7 168			--	--	0 .00	75 1.23	--	9.9 .28	--	18.4	112	18AF		
08/01/73 1220	5001 5050	3	8.1 95	75 F 24 C	7.9 185 8.0 165			--	--	0 .00	73 1.20	--	10 .28	--	17.2	110	13AF		
08/08/73 1150	5001 5050			73.4F 23.0C		158	--	--	11 .48	--	--	--	9.9 .28	--	--	92			
08/29/73 1115	5001 5050	3	8.0 91	71.6F 22.0C	7.8 195 8.3 186			--	--	0 .00	82 1.34	--	12 .34	--	17.6	103	13AF		
09/26/73 0855	5001 5050	3	7.6 80	64 F 18 C	8.0 175 7.8 174			--	--	0 .00	76 1.25	--	10 .28	--	18.6	100	13AF		
B9 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN																			
10/17/72 1050	5001 5001	2	0.1 1	61 F 16 C	7.3 564 7.3			--	--	0 .00	281 4.61	--	30 .85	--	28.0		23AF		
11/21/72 1055	5001 5001	2	0.1 1	50 F 10 C	7.1 700			--	--	--	--	--	35 .99	--	24.8		32AF		
12/19/72 1335	5001 5001	3	0.1 1	46 F 8 C	7.5 638			--	--	--	--	--	36 1.02	--	29.2		29AF		

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE						CONTINUED												
08/10/73 1130	5001 5050			71.6F 22.0C		164	--	--	12 .52	--	--	--	8.2 .23	--	--	--	86	
08/23/73 1500	5001 5050		8.7 97	69.8F 21.0C	7.9 8.1	213 219	--	--	--	0 .00	83 1.36	--	19 .54	--	--	18.4	123	17AF
09/06/73 1500	5001 5050		7.2 79	68.0F 20.0C	8.1 8.3	208 198	--	--	--	0 .00	87 1.43	--	12 .34	--	--	19.2	108	15AF
09/20/73 1300	5001 5050		6.9 75	68.0F 20.0C	7.9 8.0	200 205	--	--	--	0 .00	83 1.36	--	13 .37	--	--	18.4	122	12AF
89 D 810.1 127.9 HOG SLOUGH NEAR THORNTON																		
10/17/72 1145	5001 5001		5.2 56	66 19	F C	7.4 7.5	--	--	--	0 .00	114 1.87	--	54 1.52	--	--	16.6		9AF
11/21/72 1230	5001 5001		3.7 33	52 11	F C	7.2 7.4	--	--	--	--	--	--	115 3.24	--	--	23.6		18AF
12/19/72 1440	5001 5001		11.3 93	45 7	F C	7.8 7.8	--	--	--	--	--	--	165 4.65	--	--	25.6		8AF
01/23/73 1115	5001 5001		6.5 55	46 8	F C	7.1 7.5	--	--	--	0 .00	185 3.03	--	68 1.92	--	--	14.0		19AF
02/21/73 1135	5001 5001		8.8 81	54 12	F C	7.6 7.6	--	--	--	--	--	--	200 5.64	--	--	24.0		9AF
03/07/73 1150	5001 5050		5.9 56	55 13	F C	7.5 8.1	1410 1080	--	--	0 .00	274 4.49	--	184 5.19	--	--	23.0	570	12AF
04/04/73 1245	5001 5050		9.2 91	59 15	F C	8.3 8.0	1360 1120	--	--	0 .00	271 4.44	--	215 6.06	--	--	--	645	12AF
05/02/73 1100	5001 5050		8.1 88	68 20	F C	7.7 7.7	519 495	--	--	0 .00	98 1.61	--	90 2.54	--	--	18.2	290	11AF
06/06/73 1400	5001 5050		7.0 84	77 25	F C	7.8 7.6	410 398	--	--	0 .00	87 1.43	--	73 2.06	--	--	18.2	223	19AF
07/03/73 1345	5001 5050		6.5 79	79 26	F C	7.5 7.7	385 371	--	--	0 .00	99 1.62	--	58 1.64	--	--	17.0	226	17AF
08/01/73 1410	5001 5050		5.7 70	79 26	F C	7.6 8.0	312 288	--	--	0 .00	87 1.43	--	38 1.07	--	--	13.8	174	10AF
08/29/73 1305	5001 5050		6.6 79	77.0F 25.0C	7.9 7.9	380 377	--	--	--	0 .00	92 1.51	--	60 1.69	--	--	15.4	214	9AF
09/26/73 1040	5001 5050		5.0 54	66 19	F C	7.7 7.6	390 388	--	--	0 .00	99 1.62	--	58 1.64	--	--	19.0	214	14AF
89 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON																		
10/17/72 1255	5001 5001		1.8 19	63 17	F C	7.2 7.2	275	--	--	0 .00	96 1.57	--	31 .87	--	--	14.8		10AF
11/22/72 0925	5001 5001		0.2 2	50 10	F C	7.2 7.2	640	--	--	--	--	--	85 2.40	--	--	21.6		17AF
12/20/72 1135	5001 5001		1.7 14	46 8	F C	7.3 7.3	712	--	--	--	--	--	90 2.54	--	--	25.6		17AF
01/23/73 1220	5001 5001		3.6 30	46 8	F C	6.9 7.2	343	--	--	0 .00	122 2.00	--	36 1.02	--	--	12.0		140AF
02/21/73 1300	5001 5001		0.8 8	55 13	F C	7.2 7.2	762	--	--	--	--	--	100 2.82	--	--	21.0		24AF
03/07/73 1055	5001 5050		0.4 4	54 12	F C	7.2 7.6	810 819	--	--	0 .00	220 3.61	--	119 3.36	--	--	20.8		23AF
04/04/73 1130	5001 5050		10.9 105	57 14	F C	8.0 7.5	445 390	--	--	0 .00	140 2.29	--	30 .85	--	--	--		8AF
05/02/73 1000	5001 5050		2.4 26	66 19	F C	7.2 7.2	212 186	--	--	0 .00	70 1.15	--	12 .34	--	--	17.4		13AF
06/06/73 1305	5001 5050		13.3 159	77 25	F C	9.2 7.7	170 171	--	--	0 .00	59 .97	--	17 .48	--	--	4.5		18AF

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			TURB SAR	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH		
B9 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON						CONTINUED														
07/03/73 1250	5001		10.5 128	79 26	F C	8.4 7.8	222	--	--	--	--	0 .00	69 1.13	--	23 .65	--	--	--	--	
08/01/73 1315	5001 5050		9.2 110	77 25	F C	8.3 8.1	210 193	--	--	--	--	0 .00	69 1.13	--	20 .56	--	--	--	7.6	
08/29/73 1205	5001 5050		10.0 118	75.2F 24.0C	8.7 7.9	213 201	--	--	--	--	0 .00	78 1.28	--	18 .51	--	--	--	9.4		104F
09/26/73 1050	5001 5050		5.5 59	66 19	F C	7.6 7.6	225 222	--	--	--	--	0 .00	84 1.38	--	19 .54	--	--	13.4		114F
B9 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON																				
10/17/72 1325	5001 5001		8.6 87	61 16	F C	7.0 7.0		--	--	--	--	0 .00	32 .52	--	2.0 .06	--	--	10.2		64F
11/22/72 1045	5001 5001		9.1 82	52 11	F C	7.5	138	--	--	--	--	--	--	--	7.0 .20	--	--	15.4		224F
12/20/72 1305	5001 5001		10.7 92	48 9	F C	7.1	135	--	--	--	--	--	--	--	5.0 .14	--	--	14.6		654F
01/23/73 1310	5001 5001		11.4 96	46 8	F C	7.1 7.0	68	--	--	--	--	0 .00	29 .48	--	2.0 .06	--	--	10.8		134F
02/21/73 1330	5001 5001		11.0 97	50 10	F C	7.2	95	--	--	--	--	--	--	--	3.0 .08	--	--	14.0		144F
03/07/73 1010	5001 5050		10.3 91	50 10	F C	7.2 7.4	162 108	--	--	--	--	0 .00	48 .79	--	3.4 .10	--	--	15.0	59	244F
04/04/73 0920	5001 5050		10.1 93	54 12	F C	7.6 7.4	130 114	--	--	--	--	0 .00	52 .85	--	3.8 .11	--	--	--	76	134F
05/02/73 0810	5001 5050		9.1 90	59 15	F C	6.5 7.2	56 66	--	--	--	--	0 .00	31 .51	--	1.9 .05	--	--	16.8	51	94F
06/06/73 1045	5001 5050		8.9 97	68 20	F C	7.0 7.3	70 59	--	--	--	--	0 .00	25 .41	--	3.7 .10	--	--	12.8	38	84F
07/03/73 1035	5001 5050		8.2 93	72 22	F C	7.3 7.7	59 57	--	--	--	--	0 .00	23 .38	--	3.0 .08	--	--	11.4	48	74F
08/01/73 1030	5001 5050		8.2 95	73 23	F C	7.2 7.8	60 56	--	--	--	--	0 .00	23 .38	--	1.9 .05	--	--	11.4	41	34F
08/29/73 0955	5001 5050		7.6 86	71.6F 22.0C	7.1 8.3	63 61	--	--	--	--	0 .00	25 .41	--	3.7 .10	--	--	12.0	41	74F	
09/26/73 0905	5001 5050		8.6 85	59 15	F C	7.3 7.6	49 59	--	--	--	--	0 .00	25 .41	--	3.3 .09	--	--	13.0	46	34F
B9 D 816.6 129.8 SNODGRASS SLOUGH AT TWIN CITIES ROAD																				
10/17/72 1420	5001 5001		6.3 65	63 17	F C	7.2 7.3	166	--	--	--	--	0 .00	78 1.28	--	--	--	--	--	--	154F
11/22/72 1130	5001 5001		6.4 58	52 11	F C	7.0	400	--	--	--	--	--	--	--	--	--	--	--	--	204F
12/20/72 1405	5001 5001		10.0 82	45 7	F C	7.1	338	--	--	--	--	--	--	--	--	--	--	--	--	154F
B9 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																				
10/17/72 1455	5001 5001		3.0 32	64 18	F C	7.1 7.2	302	--	--	--	--	0 .00	125 2.05	--	23 .65	--	--	21.2		34F
11/22/72 1220	5001 5001		3.8 34	52 11	F C	7.1	330	--	--	--	--	--	--	--	34 .96	--	--	22.8		154F
12/20/72 1445	5001 5001		8.7 71	45 7	F C	7.3	445	--	--	--	--	--	--	--	56 1.58	--	--	20.2		154F
01/23/73 1355	5001 5001		4.0 34	46 8	F C	6.9 6.9	149	--	--	--	--	0 .00	62 1.02	--	9.0 .25	--	--	13.4		804F
02/21/73 1425	5001 5001		4.5 43	55 13	F C	6.9	215	--	--	--	--	--	--	--	14 .39	--	--	14.4		324F
03/07/73 0920	5001 5050		4.4 41	54 12	F C	6.8 7.2	175 187	--	--	--	--	0 .00	73 1.20	--	14 .39	--	--	11.4		374F

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER						
						MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER						PERCENT REFRACTANCE VALUE					B	F	TDS	TH	TURB		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	
89 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE CONTINUED																											
04/04/73	5001		9.1	54	F	7.5	347	--	--	--	--	0	122	--	33	--	--	--	--	--	--	--	--	--	--	--	12AF
0840	5050		84	12	C	7.6	333	--	--	--	--	.00	2.00	--	.93	--	--	--	--	--	--	--	--	--	--	--	
3																											
05/02/73	5001		8.9	63	F	7.3	377	--	--	--	--	0	126	--	40	--	--	--	--	--	--	--	--	--	--	12AF	
0730	5050		92	17	C	7.5	395	--	--	--	--	.00	2.07	--	1.13	--	--	--	--	--	--	--	--	16.8	--	--	
3																											
06/06/73	5001		8.0	75	F	7.4	280	--	--	--	--	0	98	--	20	--	--	--	--	--	--	--	--	--	--	18AF	
1000	5050		94	24	C	7.9	250	--	--	--	--	.00	1.61	--	.56	--	--	--	--	--	--	--	--	19.1	--	--	
3																											
07/03/73	5001		6.3	75	F	7.6	200	--	--	--	--	0	82	--	11	--	--	--	--	--	--	--	--	--	--	22AF	
0945	5050		74	24	C	7.8	182	--	--	--	--	.00	1.34	--	.31	--	--	--	--	--	--	--	--	18.2	--	--	
3																											
08/01/73	5001		7.0	75	F	7.8	180	--	--	--	--	0	76	--	8.5	--	--	--	--	--	--	--	--	--	--	17AF	
0930	5050		82	24	C	8.2	169	--	--	--	--	.00	1.25	--	.24	--	--	--	--	--	--	--	--	15.2	--	--	
3																											
08/29/73	5001		6.1	71.6F	7.6	195	--	--	--	--	8.0	71	--	9.2	--	--	--	--	--	--	--	--	--	--	--	20AF	
0900	5050		69	22.0C	8.8	183	--	--	--	--	.27	1.16	--	.26	--	--	--	--	--	--	--	--	--	18.2	--	--	
3																											
09/26/73	5001		5.4	64	F	7.7	209	--	--	--	--	0	94	--	11	--	--	--	--	--	--	--	--	--	--	19AF	
0720	5050		57	18	C	8.3	212	--	--	--	--	.00	1.54	--	.31	--	--	--	--	--	--	--	--	19.6	--	--	
3																											
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																											
10/18/72	5001		9.6	59	F	7.6		--	--	--	--	0	64	--	6.0	--	--	--	--	--	--	--	--	--	--	17AF	
1055	5001		95	15	C	7.4	143	--	--	--	--	.00	1.05	--	.17	--	--	--	--	--	--	--	--	17.8	--	--	
3																											
10/18/72	5050		9.3	59.0F	7.3	145	11	5.8	8.4	1.3	0	66	8.0	5.8	--	.05	.1	92	51	10A							
1155	5000	1.5	92	15.0C	7.0	140	.55	.48	.37	.03	.00	1.08	.17	.16	--	18.0	91	0	0.5								
3																											
11/08/72	5001		56.3F		7.5	126	10	4.7	6.2	1.0	0	59	5.6	4.2	1.5	.00	--	84	45	0.4							
1220	5050		13.5C				.50	.39	.27	.03	.00	.97	.12	.12	.02	--	--	62	0								
3																											
11/14/72	5050		10.2	53	F	7.2	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11A	
1440	5050		94	12	C	7.6	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3																											
11/15/72	5050		9.5	51.5F	7.3	170	14	6.6	13	1.7	0	74	18	10	--	.06	.2	121	62	40A							
1025	5000	1.5	86	10.8C	6.7	174	.70	.54	.57	.04	.00	1.21	.37	.28	--	19.0	119	2	0.7								
3																											
11/22/72	5001		10.2	50	F	7.8	144	--	--	--	--	--	--	6.0	--	--	--	--	--	--	--	--	--	--	--	29AF	
1325	5001		90	10	C									.17	--	--	--	--	--	--	--	--	--	18.2	--	--	
3																											
12/20/72	5050		10.9	45.5F	7.3	129	9.4	4.8	6.5	1.5	0	53	7.4	4.9	--	.05	.1	79	43	100A							
1300	5000	1.5	91	7.5C	7.4	118	.47	.39	.28	.04	.00	.87	.15	.14	--	17.0	78	0	0.4								
3																											
12/20/72	5001		11.0	45	F	7.2	114	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--	--	--	--	--	200AF	
1520	5001		90	7	C									.11	--	--	--	--	--	--	--	--	--	16.8	--	--	
3																											
01/17/73	5050		10.0	50.0F	7.2	100	9.5	3.9	4.9	1.5	0	47	5.7	4.1	--	.04	.2	67	40	70A							
1250	5000	1.5	88	10.0C	7.3	95	.47	.32	.21	.04	.00	.77	.12	.12	--	13.0	66	1	0.3								
3																											
01/23/73	5001		11.0	46	F	7.4	108	--	--	--	--	0	52	--	3.0	--	--	--	--	--	--	--	--	--	--	95AF	
1500	5001		93	8	C	7.2						.00	.85	--	.08	--	--	--	--	--	--	--	--	16.2	--	--	
3																											
02/07/73	5001		50.0F		7.3	143	11	6.4	7.3	1.1	0	62	7.1	7.0	1.6	.00	--	86	54	0.4							
1225	5050		10.0C				.55	.53	.32	.03	.00	1.02	.15	.20	.03	--	7.3	79	3								
3																											
02/21/73	5050		9.9	49.5F	7.3	139	12	5.8	7.0	1.3	0	70	8.5	4.6	--	.04	.3	94	54	30A							
1200	5000	1.5	87	9.7C	7.6	142	.60	.48	.30	.03	.00	1.15	.18	.13	--	19.0	93	0	0.4								
3																											
02/21/73	5001		11.1	50	F	7.4						--	--	5.0	--	--	--	--	--	--	--	--	--	--	--	30AF	
1500	5001		98	10	C									.14	--	--	--	--	--	--	--	--	--	19.0	--	--	
3																											
03/07/73	5001		10.9	50	F	7.4						0	64	--	5.3	--	--	72								35AF	
0840	5050		96	10	C	7.5	134	--	--	--	--	.00	1.05	--	.15	--	--	--	--	--	--	--	--	15.8	--	--	
3																											
03/21/73	5050		9.8	52.0F	7.3	150	15	7.4	8.9	1.1	0	81	12	7.0	--	.02	.1	112	68	30A							
1240	5000	1.5	89	11.1C	7.5	172	.75	.61	.39	.03	.00	1.33	.25	.20	--	19.0	110	2	0.5								
3																											
04/04/73	5001		10.7	54	F	7.5	182	--	--	--	--	0	98	--	7.6	--	--	105								15AF	
0750	5050		99	12	C	7.4	171	--	--	--	--	.00	1.61	--	.21	--	--	--	--	--	--	--	--	--	--	--	
3																											
04/18/73	5050		9.5	59.0F	7.3	155	13	6.5	8.0	1.2	0	73	10	6.0	--	.05	.0	100	59	20A							
1350	5000		94	15.0C	7.7	153	.65	.53	.35	.03	.00	1.20	.21	.17	--	18.0	99	0	0.5								
3																											
05/02/73	5001		8.8	63	F	6.9	170	--	--	--	--	0	68	--	7.9	--	--	96								8AF	
0615	5050		91	17	C	7.6	159	--	--	--	--	.00	1.11	--	.22	--	--	--	--	--	--	--	--	17.6	--	--	
3																											
05/09/73	5001		66.2F		7.9	160	12	6.1	10	1.0	0	66	7.7	7.7	1.9	.00	--	91	54	0.6							
1245	5050		19.0C				.60	.50	.44	.03	.00	1.08	.16	.22	.03	--	--	79	1								
3																											
05/16/73	5050		9.0	70.2F	7.3	180	14	7.0	12	1.3	0	79	15	9.7	--	.06	.1	120	64	7A							
0730	5000	1.5	101	21.2C	7.0	183	.70	.58	.52	.03	.00	1.29	.31	.27	--	21.0	119	0	0.7								
3																											

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	8	F	TDS SUM	TH NCM	TURB SAR			
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING						CONTINUED																	
06/06/73 0845	5001 5050		8.0 91	72 22	F C	7.5 7.7	205 179	--	--	--	--	0 .00	76 1.25	--	11 .31	--	--	--	18.9	96			7AF
06/20/73 1040	5050 5000	1.5	8.2 91	69.5F 20.8C	F C	7.3 8.3	135 159	12 .60	6.5 .53	11 .48	1.2 .03	0 .00	73 1.20	12 .25	7.7 .22	--	--	.04 18.0	.1	105 104	57 0	8A 0.6	
07/03/73 0830	5001 5050	3	8.3 94	72 22	F C	7.6 8.2	160 147	--	--	--	--	0 .00	66 1.08	--	7.2 .20	--	--	--	18.0	98			6AF
07/18/73 0900	5050 5000	1.5	7.9 88	69.8F 21.0C	F C	7.4	125 149	10 .50	6.0 .49	9.7 .42	1.1 .03	0 .00	69 1.13	8.0 .17	7.3 .21	--	--	.06 18.0	.1	95 94	50 0	10A 0.6	
08/01/73 0830	5001 5050	3	7.9 91	73 23	F C	7.8 8.0	190 167	--	--	--	--	0 .00	76 1.25	--	7.0 .20	--	--	--	18.4	102			8AF
08/08/73 1300	5001 5050			69.8F 21.0C		8.2	159	.55 .34	7.7 .63 .38	10 .44 .27	.8 .02 .1	0 .00	75 1.23	8.2 .17 .10	7.1 .20 .12	1.2 .02 .1	.10	--	104 83	59 0	0.6		
08/15/73 1330	5050 5000	2	7.5 86	73 23	F C	7.4 8.0	160 170	13 .65	7.1 .58	12 .52	1.2 .03	0 .00	82 1.34	10 .21 .12	8.0 .23 .13	--	--	.06 18.0	.0	110 110	62 0	10A 0.7	
08/29/73 0755	5001 5050	3	7.6 83	68.0F 20.0C	F C	7.8 8.8	197 185	--	--	--	--	6.0 .20	74 1.21	--	9.3 .26	--	--	--	18.8	101			13AF
09/19/73 1215	5050 5000	2	8.8 97	69 21	F C	7.5 7.8	150 185	12 .60	7.2 .59	13 .57	1.3 .03	0 .00	89 1.46	9.9 .21 .11	9.7 .27 .14	--	--	.06 18.0	.2	116 115	60 0	10A 0.7	
09/26/73 0630	5001 5050	3	7.8 79	61 16	F C	7.9 8.3	165 165	--	--	--	--	0 .00	73 1.20	--	8.4 .24	--	--	--	19.2	90			10AF
89 D 827.3 130.0 SACRAMENTO RIVER AT FREEPORT																							
06/28/73 1115	5050 5000					7.8 7.7	146 158	11 .55	6.4 .53	10 .44	1.1 .03	0 .00	76 1.25	9.9 .21 .13	7.9 .22 .13	--	--	.1 18.0		100 102	54 0	10A 0.6	
64 1005.00 SUSAN RIVER NEAR MOUTH																							
10/11/72 1145	5050 5050						615	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF
11/01/72 1445	5050 5050						402	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF
12/14/72 1205	5050 5050						456	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8AF
01/22/73 1625	5050 5050						388	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	125AF
02/21/73 1055	5050 5050						339	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39AF
03/14/73 1530	5050 5050						265	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34AF
04/12/73 1210	5050 5050						249	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23AF
05/14/73 1450	5050 5050						545	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22AF
06/13/73 0810	5050 5050						635	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12AF
07/19/73 0740	5050 5050						721	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
08/09/73 1035	5050 5050						663	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF
09/05/73 1615	5050 5050						520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF
64 1590.01 SUSAN RIVER NEAR LITCHFIELD																							
10/11/72 1120	5050 5050	67E	10.0 105	52.7F 11.5C		8.3	417	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7A
11/01/72 1430	5050 5050	50E	10.3 98	45.0F 7.2C		8.1	382	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5AF
12/14/72 1145	5050 5050	57E		32.0F 0.0C		8.0	406	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER		
						MILLIEQUIVALENTS PER LITER										PERCENT REFRACTANCE VALUE					TDS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	TH	F	SI02						
G4 1590.01		SUSAN RIVER NEAR LITCHFIELD										CONTINUED											
01/22/73 1600	5050 5050	134E	11.8 92	32.0F 0.0C	7.4 7.5	303 307	--	--	33 1.44 43	--	0 .00	143 2.34	--	11 .31	--	.10 --	--	95	50A 1.5				
02/21/73 1035	5050 5050	116E	10.6 93	39.2F 4.0C	8.0	317	--	--	--	--	--	--	--	--	--	--	--	--	33AF				
03/14/73 1600	5050 5050	137E	9.6 93	46.4F 8.0C	7.8 7.9	276	--	--	28 1.22 43	--	0 .00	143 2.34	--	6.3 .18	--	.00 --	--	80	23A 1.4				
04/12/73 1145	5050 5050	267E	8.3 85	50.9F 10.5C	8.0	194	--	--	--	--	--	--	--	--	--	--	--	--	58AF				
05/14/73 1430	5050 5050	169F	8.1 110	75.2F 24.0C	8.0 7.8	316 312	--	--	24 1.04 39	--	0 .00	148 2.43	--	4.0 .11	--	.10 --	--	80	14A 1.2				
06/13/73 0745	5050 5050	132E	6.7 77	59.9F 15.5C	8.0	474	--	--	--	--	--	--	--	--	--	--	--	--	5AF				
07/19/73 0720	5050 5050	120E	7.5 91	64.4F 18.0C	8.0 8.4	40A 416	--	--	46 2.00 47	--	7.0 .23	177 2.90	--	7.2 .20	--	.10 --	--	112	4A 1.9				
08/09/73 1015	5050 5050	17F	11.8 154	71.6F 22.0C	8.3 8.3	415 440	--	--	46 2.00 46	--	0 .00	198 3.25	--	7.7 .22	--	.20 --	--	117	3A 1.9				
09/05/73 1550	5050 5050	20E	13.5 188	77.9F 25.5C	8.4 8.1	432 466	--	--	56 2.44 51	--	0 .00	250 4.10	--	8.9 .25	--	.20 --	--	118	4A 2.2				
G4 1600.00		SUSAN RIVER AT SUSANVILLE																					
10/11/72 1215	5050 5050	1.66 32	9.8 99	49.1F 9.5C	7.9	159	--	--	--	--	--	--	--	--	--	--	--	--	3A				
11/01/72 1345	5050 5050	1.37 17	11.0 102	42.8F 6.0C	7.6	169	--	--	--	--	--	--	--	--	--	--	--	--	1AF				
12/14/72 1245	5050 5050	22		32.0F 0.0C	7.4	167	--	--	--	--	--	--	--	--	--	--	--	--	1AF				
01/22/73 1530	5050 5050	73	12.3 97	32.0F 0.0C	7.3	123	--	--	--	--	--	--	--	--	--	--	--	--	5AF				
02/21/73 1130	5050 5050	1.85 48	12.4 102	34.7F 1.5C	7.6	133	--	--	--	--	--	--	--	--	--	--	--	--	5AF				
03/15/73 0805	5050 5050	75	11.6 91	32.0F 0.0C	7.4 7.7	117	--	--	4.8 .21 18	--	0 .00	69 1.13	--	1.6 .05	--	.00 --	--	48	5A 0.3				
04/12/73 1245	5050 5050	3.15 264	10.1 94	42.8F 6.0C	7.6	85	--	--	--	--	--	--	--	--	--	--	--	--	12AF				
05/14/73 1340	5050 5050	2.67 154	8.8 98	56.3F 13.5C	8.0	89	--	--	--	--	--	--	--	--	--	--	--	--	5AF				
06/13/73 0905	5050 5050	2.48 121	8.3 96	59.9F 15.5C	7.5	68	--	--	--	--	--	--	--	--	--	--	--	--	12AF				
07/18/73 1505	5050 5050	2.46 108	7.7 104	74.3F 23.5C	8.4	69	--	--	--	--	--	--	--	--	--	--	--	--	4AF				
08/09/73 1115	5050 5050	0.90 4.4	9.6 129	73.4F 23.0C	8.1	179	--	--	--	--	--	--	--	--	--	--	--	--	1AF				
09/06/73 0700	5050 5050	1.02 6.5	10.2 111	54.5F 12.5C	8.0	180	--	--	--	--	--	--	--	--	--	--	--	--	1AF				
G6 1100.00		LONG VALLEY CREEK NEAR DOYLE NEAR MOUTH																					
01/22/73	5050 5050					397	--	--	--	--	--	--	--	--	--	--	--	--	180AF				
03/14/73	5050 5050					348	--	--	--	--	--	--	--	--	--	--	--	--	88AF				
05/14/73	5050 5050					587	--	--	--	--	--	--	--	--	--	--	--	--	1AF				

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SI02	F	TDS SUM	TH NCH	TURB SAR	
		66	1705.00	LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION																
11/01/72	5050	2.35	10.4	46.4F	8.1	270	--	--	22	--	0	163	--	3.8	--	.00	--		101	1A
1215	5050	2.0	104	8.0C	8.0	276			.96		.00	2.67		.11		--				1.0
									.32											
01/22/73	5050	2.80	11.1	32.0F	7.5	243	--	--	16	--	0	143	--	6.3	--	.00	--		100	50A
1400	5050	8.0	89	0.0C	7.6	246			.70		.00	2.34		.18		--				0.7
									.26											
03/15/73	5050	2.79	10.0	41.0F	7.9		--	--	15	--	0	142	--	1.5	--	.00	--		92	8A
1035	5050	12	92	5.0C	7.7	240			.65		.00	2.33		.04		--				0.7
									.26											
05/14/73	5050	3.20	7.2	72.5F	8.1	307	--	--	16	--	0	192	--	.0	--	.00	--		133	10A
1140	5050	31	98	22.5C	7.7	310			.70		.00	3.15		.00		--				0.6
									.21											
07/18/73	5050		9.0	83.3F	8.6	292	--	--	--	--	--	--	--	--	--	--	--			1AF
1300	5050	1.0	136	28.5C																
09/05/73	5050	2.33	8.9	75.2F	8.8	288	--	--	--	--	--	--	--	--	--	--	--			2AF
1405	5050	1.0	124	24.0C																
		67 L	856.3	000.5	LAKE TAHOE AT TAHOE KEYS PIER (S-1)															
05/02/73	5050		10.2	50.9F	7.5	93	--	--	--	--	--	--	--	1.7	--	--	--			0.57A
1130	5050		114	10.5C		92								.05		--	--			
			1																	
08/08/73	5050		7.5	67.4F	7.9	91	--	--	--	--	--	--	--	2.0	--	--	--			0.32A
0940	5050		102	19.6C		92								.06		--	--			
			1																	
		67 L	856.3	002.3	LAKE TAHOE AT CAMP RICHARDSON - EDWARDS PIER (S-6A)															
05/02/73	5050		10.9	48.2F	7.6	89	--	--	--	--	--	--	--	1.6	--	--	--			0.11A
1215	5050		118	9.0C		8								.05		90.0				
			1																	
08/08/73	5050		7.5	67.0F	7.7	89	--	--	--	--	--	--	--	1.9	--	--	--			0.15A
1030	5050		102	19.4C		93								.05		--	--			
			1																	
		67 L	856.4	000.6	LAKE TAHOE NEAR TAHOE KEYS (L-1)															
05/02/73	5050		10.5	47.8F	7.5	86	--	--	--	--	--	--	--	1.5	--	--	--			0.15A
1115	5050		113	8.8C		91								.04		--	--			
			1																	
		67 L	857.0	958.0	LAKE TAHOE AT SURF AND SANDS PIER (S-10)															
05/02/73	5050		10.5	49.1F	7.7	89	--	--	--	--	--	--	--	1.5	--	--	--			0.22A
1000	5050		115	9.5C		90								.04		--	--			
			1																	
08/08/73	5050		7.2	67.4F	7.8	89	--	--	--	--	--	--	--	1.9	--	--	--			0.37A
0845	5050		98	19.6C		94								.05		--	--			
			1																	
		67 L	857.6	957.1	LAKE TAHOE AT STATELINE - LAKESIDE MARINA PIER(S-13)															
05/02/73	5050		10.5	48.2F	7.7	92	--	--	--	--	--	--	--	1.6	--	--	--			0.22A
0830	5050		113	9.0C		92								.05		--	--			
			1																	
08/08/73	5050		7.1	65.2F	7.6	90	--	--	--	--	--	--	--	2.0	--	--	--			0.45A
0800	5050		94	18.4C		92								.06		--	--			
			1																	
		67 L	900.0	000.0	LAKE TAHOE - SOUTH CENTER (C-1)															
05/02/73	5050		10.4	46.8F	7.5	86	--	--	--	--	--	--	--	1.6	--	--	--			0.10A
1005	5050		110	8.2C		92								.05		--	--			
			1																	
08/08/73	5050		7.1	65.8F	7.8	90	--	--	--	--	--	--	--	2.0	--	--	--			0.13A
0850	5050		95	18.8C		91								.06		--	--			
			1																	
		67 L	900.4	956.9	LAKE TAHOE AT ZEPHYR COVE PIER (S-8)															
05/02/73	5050		10.0	47.3F	7.5	95	--	--	--	--	--	--	--	1.5	--	--	--			0.11A
0945	5050		107	8.5C		93								.04		--	--			
			2																	
08/08/73	5050		7.4	67.1F	7.6	94	--	--	--	--	--	--	--	1.7	--	--	--			0.20A
1200	5050		101	19.5C		93								.05		--	--			
			1																	
		67 L	900.5	956.9	LAKE TAHOE AT ZEPHYR COVE (L-8)															
05/02/73	5050		10.4	46.5F	7.4	87	--	--	--	--	--	--	--	1.5	--	--	--			0.08A
0935	5050		110	8.0C		93								.04		--	--			
			1																	
		67 L	900.9	006.8	LAKE TAHOE AT RUBICON BAY (L-2)															
05/02/73	5050		10.5	47.2F	7.5	87	--	--	--	--	--	--	--	1.2	--	--	--			0.10A
1200	5050		112	8.4C		92								.03		--	--			
			1																	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE			MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SI02	F	TDS SUM	TH NCH	TURB SAR
G7 L 900.9 006.8 2 LAKE TAHOE AT RUBICON BAY PIER (S-2)																			
05/02/73 1200	5050 5050		10.2 109	47.3F 8.5C	7.5 98 92	--	--	--	--	--	--	--	1.6 .05	--	--	--	0.11A		
08/08/73 5050 7.4 67.5F 7.7 90 -- -- -- -- -- -- -- 2.0 -- -- -- 0.18A 1125 5050 101 19.7C 92 .06 -- -- --																			
G7 L 902.3 007.2 LAKE TAHOE AT MEEKS BAY RESORT PIER (S-12)																			
05/09/73 0850	5050 5050		11.2 115	44.6F 7.0C	7.5 95 92	--	--	--	--	--	--	--	1.7 .05	--	--	--	0.14A		
08/08/73 5050 7.5 67.2F 7.7 89 -- -- -- -- -- -- -- 1.9 -- -- -- 0.17A 1215 5050 102 19.5C 93 .05 -- -- --																			
G7 L 905.3 956.4 LAKE TAHOE AT GLENBROOK BAY PIER (S-3)																			
05/09/73 1305	5050 5050		10.3 115	50.8F 10.4C	7.5 87 92	--	--	--	--	--	--	--	1.7 .05	--	--	--	0.28A		
08/08/73 5050 7.3 67.1F 7.7 96 -- -- -- -- -- -- -- 1.9 -- -- -- 0.12A 1120 5050 99 19.5C 94 .05 -- -- --																			
G7 L 907.8 009.2 LAKE TAHOE AT WARD CREEK PIER (S-11)																			
05/09/73 1025	5050 5050		11.3 118	45.5F 7.5C	7.4 95 93	--	--	--	--	--	--	--	1.7 .05	--	--	--	0.15A		
08/08/73 5050 7.7 68.4F 7.8 90 -- -- -- -- -- -- -- 1.7 -- -- -- 0.27A 1305 5050 106 20.2C 93 .05 -- -- --																			
G7 L 908.7 000.3 LAKE TAHOE - NORTH CENTER (C-2)																			
05/02/73 0840	5050 5050		10.3 107	45.2F 7.3C	7.4 87 92	--	--	--	--	--	--	--	1.3 .04	--	--	--	0.05A		
08/08/73 5050 7.1 66.4F 7.6 90 -- -- -- -- -- -- -- 1.9 -- -- -- 0.12A 1005 5050 96 19.1C 92 .05 -- -- --																			
G7 L 910.8 007.1 2 LAKE TAHOE AT US COAST GUARD PIER (S-5)																			
05/09/73 1155	5050 5050		10.5 114	48.8F 9.3C	7.5 89	--	--	--	--	--	--	--	1.5 .04	--	--	--	0.36A		
08/08/73 5050 7.3 66.2F 7.9 91 -- -- -- -- -- -- -- 1.8 -- -- -- 0.24A 0720 5050 98 19.0C 92 .05 -- -- --																			
G7 L 913.5 004.9 LAKE TAHOE AT CARNELIAN BAY - SIERRA BOAT CO (S-14)																			
08/08/73 0800	5050 5050		7.3 98	66.2F 19.0C	7.8 91 93	--	--	--	--	--	--	--	1.8 .05	--	--	--	0.12A		
G7 L 914.2 002.2 LAKE TAHOE AT TAHOE VISTA (L-7)																			
05/02/73 0720	5050 5050		10.5 109	45.4F 7.4C	7.5 85 91	--	--	--	--	--	--	--	1.5 .04	--	--	--	0.27A		
G7 L 914.2 002.3 LAKE TAHOE AT KINGS BEACH PIER (S-7)																			
05/02/73 0720	5050 5050		10.0 104	45.5F 7.5C	7.5 92 91	--	--	--	--	--	--	--	1.5 .04	--	--	--	0.28A		
08/08/73 5050 7.5 66.2F 7.6 93 -- -- -- -- -- -- -- 1.9 -- -- -- 0.18A 0850 5050 101 19.0C 93 .05 -- -- --																			
G7 L 914.2 956.6 LAKE TAHOE AT KINGS CASTLE PIER (S-4)																			
05/02/73 0840	5050 5050		10.1 108	47.3F 8.5C	7.5 95 93	--	--	--	--	--	--	--	1.4 .04	--	--	--	0.10A		
08/08/73 5050 7.2 67.1F 7.7 91 -- -- -- -- -- -- -- 1.9 -- -- -- 0.19A 0935 5050 98 19.5C 93 .05 -- -- --																			
G7 L 914.3 956.8 LAKE TAHOE AT INCLINE GUARD STATION (L-4)																			
05/02/73 0805	5050 5050		10.6 110	45.6F 7.5C	7.4 82 88	--	--	--	--	--	--	--	1.5 .04	--	--	--	0.42A		
G7 1195.00 TRUCKEE RIVER AT FARAD																			
04/20/73 0900	5050 5050	3.15	11.5 106	40 F 4 C	7.3 95 101	9.1 .45 46	3.0 .25 26	6.2 .27 28	--	0 .00	43 .70	--	6.6 .19	--	--	--	35 0	2A 0.5	
09/26/73 0745	5050 5050	3.27	9.5 103	52 F 11 C	7.4 84 90	8.0 .40 44	2.9 .24 26	6.1 .27 30	--	0 .00	46 .75	--	3.6 .10	--	--	--	56 0	32 0	1A 0.5

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS	TH	TURB		
												PERCENT REACTANCE VALUE									
		G7 3020.01		BURTON CREEK IN STAR HARBOR (T-8)																	
05/09/73	5050		11.3	40.0F	7.2	42	--	--	--	--	--	--	--	.2	--	--	--			3.20A	
1200	5050		109	4.4C		46								.01							
		1																			
08/01/73	5050		7.9	61.7F	7.3	96	--	--	--	--	--	--	--	1.0	--	--	--			0.46A	
1130	5050	1.5	101	16.5C		96								.03							
		1																			
		G7 3050.01		WARD CREEK NEAR MOUTH (T-5)																	
05/09/73	5050		11.7	41.0F	7.2	44	--	--	--	--	--	--	--	.0	--	--	--			0.75A	
1000	5050	20E	114	5.0C		42								.00							
		1																			
08/01/73	5050	3.84	7.0	68.9F	7.9	65	--	--	--	--	--	--	--	.2	--	--	--			0.18A	
1150	5050	5.0	97	20.5C		65								.01							
		1																			
		G7 3160.01		MADDEN CREEK NEAR MOUTH (T-10)																	
05/09/73	5050	1.20	11.3	39.2F	7.2	40	--	--	--	--	--	--	--	.0	--	--	--			0.43A	
0955	5050	19E	107	4.0C		43								.00							
		1																			
08/01/73	5050	0.53	7.8	58.6F	7.3	48	--	--	--	--	--	--	--	.2	--	--	--			0.15A	
1110	5050	2.0	96	14.8C		48								.01							
		1																			
		G7 3230.01		THIRD CREEK NEAR MOUTH (T-6)																	
05/09/73	5050		10.5	49.1F	7.2	49	--	--	--	--	--	--	--	.9	--	--	--			3.00A	
1200	5050	10E	115	9.5C		47								.03							
		1																			
08/01/73	5050		7.7	59.0F	7.3	68	--	--	--	--	--	--	--	1.0	--	--	--			3.5A	
1030	5050	3.0	95	15.0C		67								.03							
		1																			
		G7 3253.01		INCLINE CREEK AT INCLINE VILLAGE (T-2)																	
05/09/73	5050		10.6	47.3F	7.2	56	--	--	--	--	--	--	--	1.1	--	--	--			3.80A	
1230	5050	10E	113	8.5C		55								.03							
		1																			
08/01/73	5050		8.2	48.2F	7.3	72	--	--	--	--	--	--	--	1.0	--	--	--			4.5A	
1000	5050	3.0	89	9.0C		65								.03							
		1																			
		G7 3300.01		GENERAL CREEK NEAR WEEKS BAY (T-3)																	
05/09/73	5050		12.5	37.4F	6.8	16	--	--	--	--	--	--	--	.0	--	--	--			0.36A	
0920	5050	15E	116	3.0C		16								.00							
		1																			
08/01/73	5050	6.77	8.2	57.2F	7.2	56	--	--	--	--	--	--	--	.2	--	--	--			1.2A	
0950	5050	2.0	99	14.0C		57								.01							
		1																			
		G7 3571.01		TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)																	
05/09/73	5050		10.3	45.4F	7.1	24	--	--	--	--	--	--	--	.2	--	--	--			0.18A	
0840	5050	120E	107	7.4C		24								.01							
		1																			
08/01/73	5050		7.2	64.4F	7.0	22	--	--	--	--	--	--	--	.4	--	--	--			0.12A	
0840	5050	5.0	95	18.0C		25								.01							
		1																			
		G7 3679.90		EDGEWOOD CREEK AT MOUTH (T-7A)																	
05/09/73	5050		10.1	46.3F	7.6	93	--	--	--	--	--	--	--	3.2	--	--	--			4.10A	
0555	5050	8E	106	7.9C		100								.09							
		1																			
08/01/73	5050		6.0	43.7F	8.3	124	--	--	--	--	--	--	--	3.2	--	--	--			4.0A	
0700	5050	1.5	61	6.5C		98								.09							
		1																			
		G7 3680.00		EDGEWOOD CREEK AT HIGHWAY 50 (T-7)																	
05/09/73	5050	0.97	10.8	40.1F		93	--	--	--	--	--	--	--	2.0	--	--	--			5.00A	
0455	5050	8E	104	4.5C		89								.06							
		1																			
08/01/73	5050		8.5	49.1F	7.2	100	--	--	--	--	--	--	--	1.0	--	--	--			0.85A	
0746	5050	2.0	93	9.5C		99								.03							
		1																			
		G7 3705.01		UPPER TRUCKEE RIVER NEAR MOUTH (T-1)																	
05/09/73	5050		12.1	36.5F	6.8	30	--	--	--	--	--	--	--	1.9	--	--	--			3.00A	
0735	5050	40E	110	2.5C		30								.05							
		1																			
08/01/73	5050	0.97	7.4	58.1F	7.1	64	--	--	--	--	--	--	--	4.3	--	--	--			2.4A	
0750	5050	15	91	14.5C		66								.12							
		1																			
		G7 3810.01		TROUT CREEK NEAR MOUTH (T-9)																	
05/09/73	5050	5.26	11.2	37.6F	7.0	39	--	--	--	--	--	--	--	.1	--	--	--			4.00A	
0740	5050	75E	104	3.1C		39								.00							
		1																			
08/01/73	5050	1.42	8.3	58.6F	7.1	42	--	--	--	--	--	--	--	.2	--	--	--			3.0A	
0700	5050	30	102	14.8C		42								.01							
		1																			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. D DEPTH	DO SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					
					LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE			B	F	TDS SUM	TH NCH	TURB SAR
																8	102	100					
G8 2300.00 CARSON RIVER, WEST FORK, AT WOODFORDS																							
04/19/73	5050	1.96	11.9	35	F	7.1	56	6.3	1.5	3.2	--	0	30	--	.7	--	--	--	22	1A			
1000	5050		104	2	C	7.3	57	.31	.12	.14		.00	.49		.02			0	0.3				
								54	21	25													
09/25/73	5050	1.30	9.6	45	F	7.3	84	9.4	2.8	4.0	--	0	46	--	1.7	--	--	53	35	1A			
0945	5050		97	7	C	7.5	86	.47	.23	.17		.00	.75		.05			0	0.3				
								54	26	20													
G8 3040.00 INDIAN CREEK RESERVOIR AT OUTLET																							
04/19/73	5050		9.7	45	F	8.0	475	50	5.6	43	--	0	138	--	38	43.0	--	--	148	0A			
1045	5050	.2	98	7	C	7.5	516	2.50	.46	1.87		.00	2.26		1.07	.69		35	1.5				
								52	10	39					27	17							
G8 3420.20 CARSON RIVER, EAST FORK, AT HIGHWAY 4																							
04/19/73	5050		11.2	40	F	7.7	125	12	4.1	8.2	--	0	62	--	2.1	--	--	47	3A				
1130	5050	75E	105	4	C	7.7	129	.60	.34	.36		.00	1.02		.06			0	0.5				
								46	26	28													
09/25/73	5050		10.0	48	F	7.7	118	12	3.7	9.4	--	0	65	--	7.0	--	--	82	45	0A			
1030	5050	40E	105	9	C	7.7	125	.60	.30	.41		.00	1.07		.20			0	0.6				
								46	23	31													
G9 2460.00 WEST WALKER RIVER BELOW LITTLE WALKER RIVER																							
04/19/73	5050	1.98	10.0	48	F	7.9	96	11	2.1	5.8	--	0	53	--	.8	--	--	36	0A				
1530	5050		109	9	C	7.4	100	.55	.17	.25		.00	.87		.02			0	0.4				
								57	18	26													
09/25/73	5050	1.11	10.0	49	F	7.8	135	15	4.3	12	--	0	79	--	2.2	--	--	79	55	0A			
1200	5050		111	9	C	7.8	150	.75	.35	.52		.00	1.29		.06			0	0.7				
								46	22	32													
G9 3200.00 EAST WALKER RIVER NEAR BRIDGEPORT																							
04/19/73	5050	1.66	10.5	42	F	8.0	220	21	4.8	22	--	0	112	--	3.9	--	--	72	3A				
1430	5050		105	6	C	7.8	233	1.05	.39	.96		.00	1.84		.11			0	1.1				
								44	16	40													
09/25/73	5050	1.37	8.1	55	F	7.7	195	25	4.8	13	--	0	115	--	1.3	--	--	136	82	25A			
1300	5050		96	13	C	8.0	212	1.25	.39	.57		.00	1.88		.04			0	0.6				
								57	18	26													

TABLE D-3

MINOR ELEMENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

- 5000 - U. S. Geological Survey
- 5001 - U. S. Bureau of Reclamation
- 5006 - McClellan Air Force Base Laboratory
- 5050 - Department of Water Resources

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- DEPTH - Depth in feet at which sample was collected
- DISCH - Instantaneous discharge in cubic feet per second
- EC - Electrical conductance in micromhos at 25° Celsius
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- CHROM (ALL) - All chromium
- CHROM (HEX) - Hexavalent chromium
- D - Dissolved
- T - Total

TABLE D-3 (CONTINUED)
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DISCH DEPTH	TEMP EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
A0 V 836.3 128.4 NATOMAS EAST MAIN DRAIN AT SACRAMENTO											
11/14/72	5050		200 E	52 F		--	--	--	--	0.0000 T	--
0800	5050		135	6.8	--	--	--	--	--	--	--
A0 V 836.4 131.4 NATDMAS MAIN DRAIN TO SACRAMENTO RIVER											
11/14/72	5050		200 E	51.5F		--	--	--	--	0.0000 T	--
0845	5050		620	7.2	--	--	--	--	--	--	--
A0 V 847.4 135.8 R-D 1001 DRAINAGE TO NATDMAS CROSS CANAL											
11/14/72	5050		200 E	51 F		--	--	--	--	0.0000 T	--
0945	5050		475	7.3	--	--	--	--	--	--	--
A0 2112.00 SACRAMENTO RIVER AT ELKHORN FERRY											
11/14/72	5050			51 F		--	--	--	--	0.0000 T	--
0915	5050		153	7.4	--	--	--	--	--	--	--
A0 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END											
11/14/72	5050			52 F		--	--	--	--	0.0000 T	--
1200	5050		230	7.4	--	--	--	--	--	--	--
A0 2905.00 YOLO BYPASS BELOW SACRAMENTO BYPASS											
11/14/72	5050			53 F		--	--	--	--	0.0000 T	--
1340	5050		600	8.2	--	--	--	--	--	--	--
A0 3320.00 ELDER CREEK AT GERBER											
01/19/73	5050		300 E			--	--	0.02 T	0.00 T	--	--
1650	5050		225		0.00 T	0.00 T	--	12. T	0.21 T	--	0.02 T
A0 5103.00 FEATHER RIVER AT NICOLAUS											
11/14/72	5050			51 F		--	--	--	--	0.0000 T	--
1030	5050		95	7.2	--	--	--	--	--	--	--
A1 1020.00 PIT RIVER NEAR MONTGOMERY CREEK											
03/14/73	5050			8.0C		--	--	0.00 T	0.02 T	--	--
1040	5050			7.1	0.00 T	0.00 T	--	0.63 T	0.02 T	--	0.01 T
A1 1680.00 PIT RIVER NEAR CANBY											
03/14/73	5050			4.0C		--	--	0.01 T	0.01 T	--	--
1305	5050			7.5	0.00 T	0.00 T	--	4.8 T	0.11 T	--	0.02 T
A2 1300.00 SACRAMENTO RIVER AT DELTA											
03/13/73	5050			6.0C		--	--	0.00 T	0.02 T	--	--
1100	5050			7.3	0.00 T	0.00 T	--	0.10 T	0.01 T	--	0.01 T
A2 2150.00 MCCLLOUD RIVER ABOVE SHASTA LAKE											
03/13/73	5050			7.0C		--	--	0.01 T	0.01 T	--	--
1000	5050			7.4	0.00 T	0.00 T	--	1.0 T	0.02 T	--	0.02 T
A5 L 014.3 106.5 LAKE ALMANOR, EAST ARM, CENTER											
04/17/73	5050			44.2F		--	--	0.00 T	--	--	--
1415	5050	25	94			--	--	0.05 T	0.21 T	--	0.00 T
A5 L 015.5 111.1 LAKE ALMANOR, WEST ARM, CENTER											
04/17/73	5050			41.0F		--	--	0.01 T	--	--	--
1010	5050	18	89	7.3		--	--	0.08 T	0.04 T	--	0.02 T
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS											
10/19/72	5050			16.5C		--	--	--	--	--	--
0700	5000		325	7.4		--	--	0.030 D	--	--	--
11/15/72	5050			12 C		--	--	--	--	--	--
0830	5000		550	7.4		--	--	0.050 D	--	--	--
12/14/72	5050			5.0C		--	--	--	--	--	--
0830	5000		440	7.4		--	--	0.020 D	--	--	--
01/24/73	5050			8 C		--	--	--	--	--	--
1035	5000		420	7.4		--	--	0.060 D	--	--	--
02/23/73	5050			12 C		--	--	--	--	--	--
0750	5000		800	7.4		--	--	0.070 D	--	--	--
04/18/73	5050			15.0C		--	--	--	--	--	--
0915	5000		500	7.4		--	--	0.040 D	--	--	--
05/17/73	5050			23 C		--	--	--	--	--	--
0730	5000		700	7.6		--	--	0.009 D	--	--	--
06/15/73	5050			18.0C		--	--	--	--	--	--
0700	5000		450	7.6		--	--	0.070 D	--	--	--
07/19/73	5050			21 C		--	--	--	--	--	--
0715	5000		900	8.1		--	--	0.020 D	--	--	--
08/16/73	5050			25.0C		--	--	--	--	--	--
0830	5000		820	7.7		--	--	0.020 D	--	--	--
B9 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FORFBAY											
05/01/73	5001			19		--	0.00 D	0.0 D	0.00 D	--	--
1220	5006	3	698	7.3		0.00 D	--	0.0 D	0.0 D	--	0.0
B9 D 801.1 142.6 BIG BREAK NEAR OAKLEY											
05/08/73	5001			18.0C		--	0.00 D	0.0 D	0.00 D	--	--
1215	5006	3	260	8.0		0.00 D	--	0.0 D	0.0 D	--	0.0 D

TABLE D-3 (CONTINUED)
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL											
05/08/73 1105	5001 5006	3	615	17.0C 7.9	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)											
11/16/72 1345	5001 5006	3		14 C 7.7	--	--	--	-- 0.100 D	-- 0.0 D	--	--
01/15/73 1305	5001 5006	3		8 C 7.0	--	-- 0.00 D	0.00 D --	0.012 D 0.110 D	0.00 D 0.0 D	--	-- 0.00 D
05/08/73 1150	5001 5006	3	410	18.0C 8.0	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT											
11/16/72 5001 5006	3				--	--	--	-- 0.100 D	-- 0.0 D	--	--
01/15/73 1150	5001 5006	3			--	-- 0.00 D	0.00 D --	0.018 D 0.160 D	0.00 D 0.0 D	--	-- 0.00 D
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT											
11/16/72 1425	5001 5006	3		13 C 7.7	--	--	--	-- 0.0 D	-- 0.0 D	--	--
05/08/73 1255	5001 5006	3	235	18.0C 8.0	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO											
05/10/73 1110	5001 5006	3	850	18.0C 8.0	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT											
05/08/73 1410	5001 5006	3	205	18.0C 7.8	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE											
11/15/72 1230	5001 5006	3		12 C 7.6	--	--	--	-- 0.0 D	-- 0.0 D	--	--
05/10/73 1255	5001 5006	3	190	18.0C 8.0	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0 D
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING											
10/18/72 1155	5050 5050	1.5	145	59.0F 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.03 D	0.00 D 0.00 D	--	-- 0.01 D
11/14/72 1440	5050 5050		150	53 F 7.2	--	--	--	--	--	0.0000 T	--
11/15/72 1025	5050 5050	1.5	170	51.5F 7.3	0.00 D	0.00 D	0.00 D	0.00 D 0.05 D	0.00 D 0.00 D	0.01 D	0.01 D
12/20/72 1300	5050 5050	1.5	129	45.5 7.3	0.00 D	--	-- 0.00 D	0.02 D 0.13 D	0.00 D 0.01 D	--	-- 0.01 D
01/17/73 1250	5050 5050	15	100	50.0F 7.2	0.00 D	--	-- 0.00 D	0.00 D 0.08 D	0.01 D 0.00 D	--	-- 0.00 D
02/21/73 1200	5050 5050	1.5	139	49.5F 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.15 D	0.00 D 0.00 D	--	-- 0.01 D
03/21/73 1240	5050 5050	15	150	52.0F 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.12 D	0.01 D 0.00 D	--	-- 0.01 D
04/18/73 1350	5050 5050		155	59.0 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.06 D	0.00 D 0.00 D	--	-- 0.01 D
05/02/73 0615	5001 5006	3	170	17 C 6.9	--	-- 0.00 D	0.00 D --	0.0 D 0.0 D	0.00 D 0.0 D	--	-- 0.0
05/16/73 0730	5050 5050	1.5	180	70.2F 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.02 D	0.00 D 0.00 D	0.01 D	0.01 D
06/20/73 1040	5050 5050	1.5	135	69.5F 7.3	0.00 D	--	-- 0.00 D	0.01 D 0.03 D	0.00 D 0.00 D	--	-- 0.01 D
07/18/73 0900	5050 5050	1.5	125	21.0C	0.00 D	--	-- 0.00 D	0.01 D 0.02 D	0.00 D 0.00 D	0.01 D	0.01 D
08/15/73 1330	5050 5050	2	160	73 F 7.4	0.00 D	--	-- 0.00 D	0.00 D 0.04 D	0.00 D 0.02 D	--	-- 0.00 D
09/19/73 1215	5050 5050	2	150	69 F 7.5	0.00 D	--	-- 0.00 D	0.00 D 0.05 D	0.00 D 0.00 D	--	-- 0.01 D
G4 1590.01 SUSAN RIVER NEAR LITCHFIELD											
03/14/73 1600	5050 5050			8.0C 7.8	0.00 T	-- 0.00 T	--	0.01 T 3.0 T	0.02 T 0.07 T	--	-- 0.01 T
G4 1600.00 SUSAN RIVER AT SUSANVILLE											
03/15/73 0805	5050 5050			.0C 7.4	0.00 T	-- 0.00 T	--	0.00 T 0.68 T	0.02 T 0.02 T	--	-- 0.01 T
G6 1705.00 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION											
03/15/73 1035	5050 5050			5.0C 7.9	0.00 T	-- 0.00 T	--	0.00 T 1.4 T	0.01 T 0.05 T	--	-- 0.01 T

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

- 5000 - U. S. Geological Survey
- 5050 - Department of Water Resources

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- DEPTH - Depth in feet at which sample was collected
- DISCH - Instantaneous discharge in cubic feet per second
- EC - Electrical conductance in micromhos at 25° Celsius
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- D - Dissolved
- T - Total

TABLE D-4 (CONTINUED)
 SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MDLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
80 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS											
10/19/72 0700	5050 5000		325	16.5C 7.4	--	--	--	--	0.010 D	-- 0.320 D	--
11/15/72 0830	5050 5000		550	12 C 7.4	--	--	--	--	0.000 D	-- 0.440 D	--
12/14/72 0830	5050 5000		440	5.0C 7.4	--	--	--	--	0.000 D	-- 0.430 D	--
01/24/73 1035	5050 5000		420	8 C 7.4	--	--	--	--	0.000 D	-- 0.330 D	--
02/23/73 0750	5050 5000		800	12 C 7.4	--	--	--	--	0.000 D	-- 0.250 D	--
04/18/73 0915	5050 5000		500	15.0C 7.4	--	--	--	--	0.000 D	-- 0.350 D	--
05/17/73 0730	5050 5000		700	23 C 7.6	--	--	--	--	0.010 D	-- 0.400 D	--
06/15/73 0700	5050 5000		450	18.0C 7.6	--	--	--	--	0.000 D	-- 0.350 D	--
07/19/73 0715	5050 5000		900	21 C 8.1	--	--	--	--	0.010 D	-- 0.650 D	--
08/16/73 0830	5050 5000		820	25.0C 7.7	--	--	--	--	0.010 D	-- 0.540 D	--
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING											
10/18/72 1155	5050 5000	1.5	145	59.0F 7.3	--	--	--	--	0.000 D	-- 0.100 D	--
11/15/72 1025	5050 5000	1.5	170	51.5F 7.3	--	--	--	--	0.000 D	-- 0.130 D	--
12/20/72 1300	5050 5000	1.5	129	45.5 7.3	--	--	--	--	0.000 D	-- 0.120 D	--
01/17/73 1250	5050 5000	1.5	100	50.0F 7.2	--	--	--	--	0.000 D	-- 0.050 D	--
02/21/73 1200	5050 5000	1.5	139	49.5F 7.3	--	--	--	--	0.000 D	-- 0.090 D	--
03/21/73 1240	5050 5000	1.5	150	52.0F 7.3	--	--	--	--	0.000 D	-- 0.110 D	--
04/18/73 1350	5050 5000		155	59.0 7.3	--	--	--	--	0.000 D	-- 0.110 D	--
05/16/73 0730	5050 5000	1.5	180	70.2F 7.3	--	--	--	--	0.000 D	-- 0.120 D	--
06/20/73 1040	5050 5000	1.5	135	69.5F 7.3	--	--	--	--	0.000 D	-- 0.100 D	--
08/15/73 1330	5050 5000	2	160	73 F 7.4	--	--	--	--	0.000 D	-- 0.080 D	--

TABLE D-5

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Sampler and Lab Agency Codes

- 5001 - U. S. Bureau of Reclamation
 5050 - Department of Water Resources

Abbreviations and Constituents

- TIME - Pacific Standard Time on a 24-hour clock
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
- EC - Electrical conductance in micromhos at 25° Celsius
- DO - Dissolved oxygen content in milligrams per liter
- G.H. - Instantaneous gage height in feet above an established datum
- PH - Measure of acidity (<7) or alkalinity (>7) of water: F - Field; L - Lab
- DISCH - Instantaneous discharge in cubic feet per second
- MBAS - Methylene blue active substance (a test for detergent surfactants) in milligrams per liter: L - Linear alkylate sulfonate; A - Alkyl benzene sulfonate
- DEPTH - Depth in feet at which sample was collected
- TURB - Jackson Turbidity Units
- T+L - Tannin and lignin as tannic acid in milligrams per liter
- CHLOR - Field determination of residual chlorine in milligrams per liter
- O+G - Oil and grease in milligrams per liter
- COLOR - True color in color units
- SET S - Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L): F - Field; L - Lab
- BOD - Biochemical oxygen demand in milligrams per liter: A - 4 days; B - 5 days; C - 6 days; D - 7 days; E - 100 days; F - other
- SUS S - Suspended solids in milligrams per liter: 5 - at 105°C; 8 - at 108°C
- COD - Chemical oxygen demand in milligrams per liter
- V SUS S - Volatile suspended solids in milligrams per liter
- CYANIDE - Cyanide in milligrams per liter
- PHENOLS - Phenols in milligrams per liter
- TOC - Total organic carbon in milligrams per liter
- DOC - Dissolved organic carbon in milligrams per liter
- IODIDE - Iodide in milligrams per liter
- T ODOR - Threshold odor number at 60°C
- BROMIDE - Bromide in milligrams per liter
- SULFITE - Sulfite in milligrams per liter
- T SULF - Total sulfides in milligrams per liter
- D SULF - Dissolved sulfides in milligrams per liter
- CC EXT - Carbon chloroform extract
- CA EXT - Carbon alcohol extract

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET S		ROO SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT	
								O+G COLOR	ML/L MG/L									
		80 7020.00		SAN JOAQUIN RIVER NEAR VERNALIS														
10/18/72	5001	19	C	8.2	7.7													
1515	5050				7.6	--	--	--	--	32	5	6	--	--	--	--	--	
10/19/72	5050	16.5C	6.0	7.4						5.2	R	20	--	--	--	--	--	
0700	5050	325	10.98	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/15/72	5050	12	C	8.9	7.4					7.6	R	28	--	--	--	--	--	
0830	5050	550	11.52	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/72	5050	5.0C	11.5	7.4						3.3	R	12	--	--	--	--	--	
0830	5050	440		7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	
01/24/73	5050	8	C	9.7	7.4					3.8	R	20	--	--	--	--	--	
1035	5050	420		7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
02/23/73	5050	12	C	8.2	7.4					1.9	R	13	--	--	--	--	--	
0750	5050	800	18.96	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	
03/06/73	5001	12	C	9.0	7.5													
1605	5050			7.9	--	--	--	--	--	64	5	16	--	--	--	--	--	
04/03/73	5001	14	C	10.4	7.8													
1455	5050	542		7.8	--	3	--	--	--	48	5	10	--	--	--	--	--	
04/18/73	5050	15.0C	9.9	7.4						3.4	R	12	--	--	--	--	--	
0915	5050	500	13.72	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/01/73	5001	19	C	9.9	7.3													
1400	5050	690		7.7	--	3	--	--	--	36	5	7	--	--	--	--	--	
05/17/73	5050	23	C	9.0	7.6					5.1	R	17	--	--	--	--	--	
0730	5050	700	11.82	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	
06/05/73	5001	22	C	11.2	8.6													
1730	5050	350		7.8	--	3	--	--	--	42	5	10	--	--	--	--	--	
06/15/73	5050	18	C	9.1	7.6					4.1	R	30	--	--	--	--	--	
0700	5050	450	11.84	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/02/73	5001	25	C	13.1	8.4													
1800	5050	890		8.3	--	3	--	--	--	78	5	12	--	--	--	--	--	
07/19/73	5050	21	C	9.4	8.1					6.9	R	22	--	--	--	--	--	
0715	5050	900	9.78	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73	5001	27	C	12.3	8.9													
1600	5050	1000		8.0	--	3	--	--	--	117	5	6	--	--	--	--	--	
08/16/73	5050	25	C	9.7	7.7					6.5	R	10	--	--	--	--	--	
0830	5050	820	10.06	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/28/73	5001	24.0C	9.0	8.4														
1525	5050	865		8.7	--	3	--	--	--	84	5	13	--	--	--	--	--	
09/20/73	5050	71	F	7.9	7.4					8.0	R	27	--	--	--	--	--	
0645	5050	700	10.73		--	--	--	--	--	--	--	--	--	--	--	--	--	
09/25/73	5001	19	C	6.4	8.1													
1350	5050	745		8.0	--	--	--	--	--	55	5	6	--	--	--	--	--	
		89 D 747.2 118.4		SAN JOAQUIN RIVER AT MOSSDALE BRIDGE														
09/13/73	5050	22	C	7.4						5.0	R	--	--	--	--	--	--	
1005	5050	750			--	3	--	--	--	30	5	7	--	--	--	--	--	
09/21/73	5050	21.0C	6.7							5.9	R	--	--	--	--	--	--	
0730	5050	750			--	3	--	--	--	75	5	6	--	--	--	--	--	
		89 D 748.0 125.2		SUGAR CUT AT MOUTH														
09/13/73	5050	22	C	9.3						5.9	R	--	--	--	--	--	--	
0847	5050	800			--	3	--	--	--	42	5	9	--	--	--	--	--	
09/21/73	5050	21	C	7.6						5.1	R	--	--	--	--	--	--	
0630	5050	775			--	3	--	--	--	71	5	6	--	--	--	--	--	
		89 D 748.3 126.9		OLD RIVER AT TRACY ROAD BRIDGE														
03/06/73	5001	12	C	8.6	7.5													
1330	5050			7.6	--	3	--	--	--	47	5	16	--	--	--	--	--	
04/03/73	5001	13	C	10.5	7.6													
1235	5050	610		7.7	--	3	--	--	--	36	5	10	--	--	--	--	--	
05/01/73	5001	19	C	9.6	7.5													
1055	5050	820		7.8	--	3	--	--	--	57	5	12	--	--	--	--	--	
06/05/73	5001	23	C	12.4	9.0													
1515	5050	420		7.9	--	3	--	--	--	70	5	16	--	--	--	--	--	
07/02/73	5001	25	C	14.5	8.6													
1510	5050	970		8.3	--	3	--	--	--	63	5	13	--	--	--	--	--	
07/31/73	5001	27	C	9.8	8.5													
1340	5050	780		8.0	--	3	--	--	--	64	5	12	--	--	--	--	--	
08/28/73	5001	23.0C	8.5	8.3														
1305	5050	1100		8.1	--	3	--	--	--	63	5	14	--	--	--	--	--	
09/25/73	5001	19	C	6.5	8.1													
1030	5050	845		7.8	--	3	--	--	--	49	5	6	--	--	--	--	--	
		89 D 749.1 121.6		OLD RIVER ABOVE HEAD OF MIDDLE RIVER														
09/13/73	5050	22	C	7.1						4.3	R	--	--	--	--	--	--	
0950	5050	770			--	3	--	--	--	28	5	6	--	--	--	--	--	
09/21/73	5050	21	C	6.0						5.0	R	--	--	--	--	--	--	
0720	5050	770			--	3	--	--	--	68	5	6	--	--	--	--	--	

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBA5	DEPTH TURR	T-L CHLOR	O-G COLOR	SET 5 ML/L	BOD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
R9 D 749.2 126.9 GRANT LINE CANAL AT TRACY ROAD BRIDGE																	
09/13/73 0825	5050 5050	22 800	C	9.2	--	3	--	--	--	5.1 36	R 5	-- 6	-- --	-- --	-- --	-- --	-- --
09/21/73 0615	5050 5050	21 770	C	8.2	--	3	--	--	--	6.0 93	R 5	-- 8	-- --	-- --	-- --	-- --	-- --
R9 D 749.5 222.7 MIDDLE RIVER AT HEAD																	
09/13/73 0935	5050 5050	21.5C 775	C	7.1	--	3	--	--	--	4.6 38	R 5	-- 8	-- --	-- --	-- --	-- --	-- --
09/21/73 0710	5050 5050	7.4 770	C	7.4	--	3	--	--	--	5.4 54	R 5	-- 6	-- --	-- --	-- --	-- --	-- --
R9 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY																	
03/06/73 1510	5001 5050	13 800	C	8.1 7.4 7.8	--	--	--	--	--	-- 54	-- 5	-- 15	-- --	-- --	-- --	-- --	-- --
04/03/73 1340	5001 5050	14 635	C	10.2 7.7 7.5	--	3	--	--	--	-- 37	-- 5	-- 9	-- --	-- --	-- --	-- --	-- --
05/01/73 1220	5001 5050	19 698	C	10.1 7.3 7.4	--	3	--	--	--	-- 58	-- 5	-- 10	-- --	-- --	-- --	-- --	-- --
06/05/73 1610	5001 5050	23 370	C	11.3 8.7 7.9	--	3	--	--	--	-- 68	-- 5	-- 12	-- --	-- --	-- --	-- --	-- --
07/02/73 1610	5001 5050	25 785	C	10.9 8.6 8.2	--	3	--	--	--	-- 55	-- 5	-- 10	-- --	-- --	-- --	-- --	-- --
07/31/73 1440	5001 5050	27 970	C	10.8 8.6 8.3	--	3	--	--	--	-- 62	-- 5	-- 12	-- --	-- --	-- --	-- --	-- --
08/28/73 1400	5001 5050	23.0C 900	C	9.8 8.6 8.4	--	3	--	--	--	-- 62	-- 5	-- 11	-- --	-- --	-- --	-- --	-- --
09/25/73 1245	5001 5050	20 610	C	6.5 8.0 8.2	--	3	--	--	--	-- 43	-- 5	-- 5	-- --	-- --	-- --	-- --	-- --
R9 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE																	
09/13/73 0920	5050 5050	22 775	C	12.2	--	3	--	--	--	7.4 65	R 5	-- 14	-- --	-- --	-- --	-- --	-- --
09/21/73 0655	5050 5050	20.5C 750	C	9.5	--	3	--	--	--	6.0 69	R 5	-- 8	-- --	-- --	-- --	-- --	-- --
R9 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY																	
10/16/72 1420	5001 5050	18 800	C	7.1 7.5	--	3	--	--	--	-- 31	-- 5	-- 4	-- --	-- --	-- --	-- --	-- --
11/20/72 1005	5001 5050	12 800	C	9.2 7.7	--	3	--	--	--	-- 31	-- 5	-- 7	-- --	-- --	-- --	-- --	-- --
03/06/73 1230	5001 5050	12 800	C	7.5 7.2 7.7	--	3	--	--	--	-- 43	-- 5	-- 13	-- --	-- --	-- --	-- --	-- --
04/03/73 1130	5001 5050	13 528	C	9.6 7.3 7.5	--	3	--	--	--	1.6 R 49	-- 5	-- 8	-- --	-- --	-- --	-- --	-- --
05/01/73 1005	5001 5050	19 412	C	7.4 7.1 7.8	--	2	--	--	--	0.7 R 48	-- 5	-- 11	-- --	-- --	-- --	-- --	-- --
06/05/73 1430	5001 5050	20 310	C	6.8 7.6 7.6	--	3	--	--	--	1.1 R 49	-- 5	-- 7	-- --	-- --	-- --	-- --	-- --
07/02/73 1410	5001 5050	25 242	C	7.0 7.5 8.1	--	3	--	--	--	0.9 R 44	-- 5	-- 8	-- --	-- --	-- --	-- --	-- --
07/31/73 1240	5001 5050	25 370	C	8.6 7.8 8.2	--	3	--	--	--	1.5 R 50	-- 5	-- 8	-- --	-- --	-- --	-- --	-- --
08/28/73 1220	5001 5050	22.0C 282	C	7.7 7.6 8.0	--	3	--	--	--	1.3 R 48	-- 5	-- 7	-- --	-- --	-- --	-- --	-- --
09/25/73 0950	5001 5050	18 270	C	6.7 8.0 8.2	--	2	--	--	--	2.0 R 42	-- 5	-- 5	-- --	-- --	-- --	-- --	-- --
R9 D 755.7 119.6 SAN JOAQUIN RIVER AT HIGHWAY 4																	
09/13/73 0900	5050 5050	22 500	C	8.0	--	3	--	--	--	7.8 R 60	-- 5	-- 12	-- --	-- --	-- --	-- --	-- --
09/21/73 0635	5050 5050	20.5C 500	C	8.7	--	3	--	--	--	5.4 R 64	-- 5	-- 10	-- --	-- --	-- --	-- --	-- --
R9 D 756.3 120.1 SAN JOAQUIN RIVER BELOW SANTA FE RR XING AT STOCKTON																	
09/21/73 0625	5050 5050	20.5C 650	C	7.7	--	3	--	--	--	18 R 74	-- 5	-- 15	-- --	-- --	-- --	-- --	-- --
R9 D 756.6 133.9 OLD RIVER AT PALM TRACT																	
03/12/73 1440	5001 5050	13 680	C	9.1 7.6 7.9	--	1	--	--	--	-- 34	-- 5	-- 8	-- --	-- --	-- --	-- --	-- --
03/26/73 1330	5001 5050	14 735	C	9.0 7.5 7.6	--	2	--	--	--	-- 27	-- 5	-- 10	-- --	-- --	-- --	-- --	-- --
04/09/73 1410	5001 5050	16 578	C	8.7 7.4 7.5	--	3	--	--	--	-- 36	-- 5	-- 10	-- --	-- --	-- --	-- --	-- --
04/23/73 1230	5001 5050	17 440	C	9.4 7.9 7.8	--	3	--	--	--	-- 54	-- 5	-- 11	-- --	-- --	-- --	-- --	-- --
05/07/73 1205	5001 5050	19 268	C	8.2 7.5 7.5	--	1	--	--	--	-- 49	-- 5	-- 8	-- --	-- --	-- --	-- --	-- --

TABLED-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET 5 ML/L MG/L	800 SUS S	COND V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
R9 D 756.6 133.9 OLD RIVER AT PALM TRACT CONTINUED																	
05/25/73	5001 1410	22 C 230	7.8	7.9 8.0	--	2	--	--	--	45	5	4	--	--	--	--	--
06/08/73	5001 1355	25 C 255	7.6	7.9 7.8	--	1	--	--	--	61	5	34	--	--	--	--	--
06/22/73	5001 1235	25 C 228	8.2	7.5 7.8	--	2	--	--	--	26	5	6	--	--	--	--	--
R9 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT 48																	
09/13/73	5050 0900	23 C 615	2.7	--	--	3	--	--	--	7.1 R 27	--	--	--	--	--	--	--
09/13/73	5050 0901	23 C 626	2.5	--	--	30	--	--	--	29	5	6	--	--	--	--	--
09/21/73	5050 0900	23 C 612	4.4	--	--	3	--	--	--	6.1 R 28	--	--	--	--	--	--	--
09/21/73	5050 0901	23 C 591	5.5	--	--	30	--	--	--	80	5	13	--	--	--	--	--
R9 D 757.6 121.5 STOCKTON SHIP CHANNEL AT LIGHT 43																	
09/13/73	5050 0825	23 C 593	2.7	--	--	3	--	--	--	4.1 R 20	--	--	--	--	--	--	--
09/13/73	5050 0826	23 C 602	2.3	--	--	32	--	--	--	32	5	6	--	--	--	--	--
09/21/73	5050 0830	23 C 623	3.7	--	--	3	--	--	--	5.5 R 33	--	--	--	--	--	--	--
09/21/73	5050 0831	23 C 621	3.3	--	--	28	--	--	--	53	5	9	--	--	--	--	--
R9 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO																	
07/06/73	5001 1140	25 C 438	7.9	7.9 7.9	--	3	--	--	--	28	5	8	--	--	--	--	--
07/23/73	5001 1250	22 C 870	10.4	7.4 8.2	--	3	--	--	--	36	5	6	--	--	--	--	--
08/03/73	5001 1205	24 C 655	8.3	7.9 8.2	--	3	--	--	--	42	5	8	--	--	--	--	--
08/20/73	5001 1310	24.0C 5050	7.6	7.6 7.8	--	3	--	--	--	30	5	6	--	--	--	--	--
08/31/73	5001 1100	23 C 460	7.7	8.1 8.3	--	3	--	--	--	26	5	6	--	--	--	--	--
09/17/73	5001 1205	23 C 340	7.8	8.0 8.2	--	3	--	--	--	22	5	2	--	--	--	--	--
R9 D 758.6 138.3 ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																	
03/12/73	5001 1150	13 C 980	8.7	7.7 8.0	--	3	--	--	--	35	5	9	--	--	--	--	--
03/26/73	5001 1110	15 C 1260	8.8	7.4 7.8	--	3	--	--	--	30	5	10	--	--	--	--	--
04/09/73	5001 1130	17 C 780	8.8	7.4 7.7	--	3	--	--	--	34	5	10	--	--	--	--	--
04/23/73	5001 1030	17 C 520	8.1	7.8 7.0	--	3	--	--	--	48	5	10	--	--	--	--	--
05/07/73	5001 0945	19 C 280	7.2	7.6 7.6	--	3	--	--	--	58	5	9	--	--	--	--	--
05/25/73	5001 1205	21 C 235	7.3	7.9 8.0	--	3	--	--	--	42	5	8	--	--	--	--	--
06/08/73	5001 1120	25 C 252	7.4	7.9 7.8	--	3	--	--	--	35	5	4	--	--	--	--	--
06/22/73	5001 1025	24 C 232	7.6	7.5 7.9	--	3	--	--	--	36	5	7	--	--	--	--	--
07/06/73	5001 1000	25 C 398	7.7	7.7 7.8	--	3	--	--	--	35	5	8	--	--	--	--	--
07/23/73	5001 1120	22 C 940	7.5	7.7 8.1	--	3	--	--	--	37	5	6	--	--	--	--	--
08/03/73	5001 1020	23 C 690	7.4	7.7 8.2	--	3	--	--	--	46	5	9	--	--	--	--	--
08/20/73	5001 1100	23.0C 5050	6.5	7.7 8.2	--	3	--	--	--	59	5	8	--	--	--	--	--
08/31/73	5001 0855	22 C 515	6.8	7.8 8.3	--	3	--	--	--	40	5	8	--	--	--	--	--
09/17/73	5001 1005	23 C 410	7.4	7.8 8.2	--	3	--	--	--	39	5	4	--	--	--	--	--
R9 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																	
10/16/72	5001 1240	18 C 5050	3.5	7.3	--	2	--	--	--	27	5	4	--	--	--	--	--
11/20/72	5001 0830	11 C 5050	5.7	7.2	--	2	--	--	--	27	5	8	--	--	--	--	--
03/06/73	5001 1115	12 C 5050	8.9	7.5 7.7	--	2	--	--	--	36	5	12	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP FC	DO G.H.	F-PH L-PH	OISCH MBAS	DEPTH TURB	T-L CHLOR	SET 5		BOD SUS 5	COD SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
								O-G COLOR	ML/L MG/L								
R9 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE CONTINUED																	
04/03/73 1030	5001 5050	13 C 518	10.1 7.6	7.8 7.6	--	1	--	--	--	2.1 R 25 5	-- 6	--	--	--	--	--	--
05/01/73 0900	5001 5050	19 C 732	8.3 7.7	7.7 7.7	--	1	--	--	--	4.1 R 51 5	-- 12	--	--	--	--	--	--
06/05/73 1335	5001 5050	25 C 390	10.9 7.8	8.8 7.8	--	2	--	--	--	4.4 R 49 5	-- 9	--	--	--	--	--	--
07/02/73 1310	5001 5050	26 C 412	6.4 8.1	7.6 8.1	--	1	--	--	--	2.5 R 80 5	-- 9	--	--	--	--	--	--
07/31/73 1120	5001 5050	26 C 410	8.2 8.2	7.6 8.2	--	2	--	--	--	2.8 R 57 5	-- 10	--	--	--	--	--	--
08/28/73 1120	5001 5050	25.0C 415	7.7 8.9	8.3 8.9	--	3	--	--	--	2.3 R 54 5	-- 9	--	--	--	--	--	--
09/25/73 0900	5001 5050	20 C 648	4.1 8.2	8.0 8.2	--	1	--	--	--	4.2 R 32 5	-- 4	--	--	--	--	--	--
R9 D 759.1 123.6 STOCKTON SHIP CHANNEL AT LIGHT 36																	
09/13/73 0735	5050 5050	22 C 470	5.6 4.7	5.6 4.7	--	3	--	--	--	3.0 R --	-- --	--	--	--	--	--	--
09/21/73 0750	5050 5050	22 C 601	2.8 6.1	2.8 6.1	--	3	--	--	--	3.8 R --	-- --	--	--	--	--	--	--
R9 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																	
03/12/73 1305	5001 5050	13 C 580	9.5 7.8	7.6 7.8	--	3	--	--	--	-- 44 5	-- 11	--	--	--	--	--	--
03/26/73 1220	5001 5050	14 C 865	9.3 7.7	7.5 7.7	--	3	--	--	--	-- 29 5	-- 12	--	--	--	--	--	--
04/09/73 1220	5001 5050	16 C 542	9.3 7.5	7.4 7.5	--	3	--	--	--	-- 24 5	-- 9	--	--	--	--	--	--
04/23/73 1125	5001 5050	17 C 375	10.5 7.1	8.0 7.1	--	3	--	--	--	-- 31 5	-- 7	--	--	--	--	--	--
05/07/73 1050	5001 5050	18 C 243	8.1 7.5	7.6 7.5	--	3	--	--	--	-- 46 5	-- 8	--	--	--	--	--	--
05/25/73 1305	5001 5050	21 C 230	7.9 8.2	8.0 8.2	--	3	--	--	--	-- 43 5	-- 4	--	--	--	--	--	--
06/08/73 1255	5001 5050	25 C 240	7.7 7.8	8.0 7.8	--	3	--	--	--	-- 34 5	-- 5	--	--	--	--	--	--
06/22/73 1135	5001 5050	23 C 228	7.8 8.0	7.5 8.0	--	3	--	--	--	-- 34 5	-- 7	--	--	--	--	--	--
07/06/73 1050	5001 5050	24 C 430	7.8 8.2	7.8 8.2	--	3	--	--	--	-- 32 5	-- 8	--	--	--	--	--	--
07/23/73 1210	5001 5050	22 C 840	8.3 8.1	7.9 8.1	--	3	--	--	--	-- 40 5	-- 6	--	--	--	--	--	--
08/03/73 1115	5001 5050	23 C 685	8.0 8.0	7.9 8.0	--	3	--	--	--	-- 46 5	-- 8	--	--	--	--	--	--
08/20/73 1215	5001 5050	23.0C 1215	7.2 8.0	7.6 8.0	--	3	--	--	--	-- 42 5	-- 7	--	--	--	--	--	--
08/31/73 1000	5001 5050	21 C 480	7.4 8.8	7.9 8.8	--	3	--	--	--	-- 34 5	-- 6	--	--	--	--	--	--
09/17/73 1055	5001 5050	23.0C 360	8.1 8.3	8.0 8.3	--	3	--	--	--	-- 26 5	-- 4	--	--	--	--	--	--
R9 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																	
03/12/73 1050	5001 5050	13 C 620	9.5 7.7	7.5 7.7	--	3	--	--	--	-- 45 5	-- 10	--	--	--	--	--	--
03/26/73 1000	5001 5050	13 C 830	9.6 7.6	7.3 7.6	--	3	--	--	--	-- 31 5	-- 12	--	--	--	--	--	--
04/09/73 1030	5001 5050	17 C 593	9.2 7.5	7.7 7.5	--	3	--	--	--	-- 25 5	-- 9	--	--	--	--	--	--
04/23/73 0915	5001 5050	17 C 415	11.7 7.8	7.9 7.8	--	3	--	--	--	-- 42 5	-- 9	--	--	--	--	--	--
05/07/73 0830	5001 5050	17 C 287	8.3 7.6	7.9 7.6	--	3	--	--	--	-- 44 5	-- 8	--	--	--	--	--	--
05/25/73 1045	5001 5050	7.9 360	8.0 8.0	8.0 8.0	--	3	--	--	--	-- 40 5	-- 8	--	--	--	--	--	--
06/08/73 1020	5001 5050	25 C 280	6.7 7.8	7.9 7.8	--	3	--	--	--	-- 38 5	-- 5	--	--	--	--	--	--
06/22/73 0935	5001 5050	24 C 285	7.6 8.0	7.8 8.0	--	3	--	--	--	-- 47 5	-- 8	--	--	--	--	--	--
07/06/73 0910	5001 5050	24 C 685	7.5 7.8	7.8 7.8	--	3	--	--	--	-- 46 5	-- 9	--	--	--	--	--	--
07/23/73 1030	5001 5050	21 C 1420	7.4 8.2	7.4 8.2	--	3	--	--	--	-- 58 5	-- 9	--	--	--	--	--	--
08/03/73 0930	5001 5050	22 C 1195	7.8 8.0	8.0 8.0	--	3	--	--	--	-- 61 5	-- 11	--	--	--	--	--	--
08/20/73 1000	5001 5050	21.0C 1000	6.5 8.1	7.5 8.1	--	3	--	--	--	-- 45 5	-- 5	--	--	--	--	--	--

TABLE D-5 (CONTINUED)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DD G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	0+G COLOR	SET S ML/L MG/L	ROD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC OOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
		89 D 800.7 138.4			DUTCH SLOUGH AT BETHEL ISLAND BRIDGE										CONTINUED		
08/31/73 0740	5001 5050	20 C 835	7.2 7.9	8.0 7.9	--	3	--	--	--	45 5	9	--	--	--	--	--	--
09/17/73 0915	5001 5050	23.0C 590	6.9 7.9	7.5 7.9	--	3	--	--	--	34 5	4	--	--	--	--	--	--
		89 D 801.1 142.6			BIG BREAK NEAR OAKLEY												
02/14/73 1600	5001 5050	11 C	9.9	7.5 7.5	--	3	--	--	--	44 5	21	--	--	--	--	--	--
03/13/73 1200	5001 5050	12 C	10.1	7.9 7.7	--	3	--	--	--	33 5	9	--	--	--	--	--	--
03/27/73 1140	5001 5050	14.0C 485	10.0	7.3 7.6	--	3	--	--	--	22 5	6	--	--	--	--	--	--
04/10/73 1230	5001 5050	17.0C 470	9.5	7.5 7.5	--	3	--	--	--	1.9 R 34 5	6	--	--	--	--	--	--
04/24/73 1015	5001 5050	17.0C 375	10.7	8.6 7.8	--	3	--	--	--	43 5	6	--	--	--	--	--	--
05/01/73 1100	5001 5050		9.4		--	1	--	--	--	46 5	8	--	--	--	--	--	--
05/01/73 1200	5001 5050	19.0C 280	9.4		--	1	--	--	--	49 5	10	--	--	--	--	--	--
05/01/73 1201	5001 5050	19.0C	9.3		--	5	--	--	--	46 5	8	--	--	--	--	--	--
05/01/73 1300	5001 5050	19.0C 240	10.1		--	1	--	--	--	38 5	7	--	--	--	--	--	--
05/01/73 1301	5001 5050	19.0C 240	10.4		--	5	--	--	--	52 5	10	--	--	--	--	--	--
05/01/73 1400	5001 5050	19.0C 245	10.8		--	1	--	--	--	31 5	8	--	--	--	--	--	--
05/01/73 1401	5001 5050	20.0C 250	10.7		--	6	--	--	--	32 5	6	--	--	--	--	--	--
05/01/73 1500	5001 5050	19.0C 240	10.9		--	1	--	--	--	29 5	6	--	--	--	--	--	--
05/01/73 1501	5001 5050	20.0C 235	10.8		--	7	--	--	--	28 5	7	--	--	--	--	--	--
05/01/73 1600	5001 5050	19.0C 235	10.5		--	1	--	--	--	25 5	6	--	--	--	--	--	--
05/01/73 1601	5001 5050	20.0C 240	10.7		--	8	--	--	--	28 5	6	--	--	--	--	--	--
05/01/73 1700	5001 5050	19.0C 240	10.6		--	1	--	--	--	29 5	7	--	--	--	--	--	--
05/01/73 1701	5001 5050	19.0C 235	10.9		--	7	--	--	--	29 5	8	--	--	--	--	--	--
05/01/73 1800	5001 5050	20.0C 250	10.6		--	1	--	--	--	37 5	8	--	--	--	--	--	--
05/01/73 1801	5001 5050	20.0C 245	10.7		--	7	--	--	--	35 5	8	--	--	--	--	--	--
05/01/73 1900	5001 5050	19.0C 240	10.5		--	1	--	--	--	36 5	8	--	--	--	--	--	--
05/01/73 1901	5001 5050	19.0C 240	10.5		--	6	--	--	--	39 5	8	--	--	--	--	--	--
05/08/73 1215	5001 5050	18.0C 260	8.9	8.0 7.6	--	3	--	--	--	1.8 R 40 5	8	--	--	--	--	--	--
05/29/73 1600	5001 5050	22.0C 250	8.5	7.7 7.7	--	3	--	--	--	24 5	2	--	--	--	--	--	--
06/11/73 1620	5001 5050	24.0C 254	8.1	7.8 7.7	--	3	--	--	--	1.3 R 38 5	7	--	--	--	--	--	--
06/25/73 1420	5001 5050	24 C 350	8.5	7.9 8.1	--	3	--	--	--	37 5	8	--	--	--	--	--	--
07/09/73 1500	5001 5050	25.0C 1090	8.1	7.9 7.9	--	3	--	--	--	1.3 R 32 5	7	--	--	--	--	--	--
08/06/73 1415	5001 5050	22.0C 1118	8.8	7.8 8.2	--	3	--	--	--	1.6 R 51 5	5	--	--	--	--	--	--
08/21/73 1130	5001 5050	22.0C 710	8.2	7.5 7.9	--	3	--	--	--	37 5	6	--	--	--	--	--	--
09/04/73 1230	5001 5050	21.0C 782	7.9	7.9 8.1	--	3	--	--	--	0.8 R 52 5	7	--	--	--	--	--	--
09/18/73 1135	5001 5050	20.0C 344	7.8	7.9 8.5	--	3	--	--	--	40 5	9	--	--	--	--	--	--
		89 D 801.2 148.5			SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL												
10/04/72 1605	5001 5050	20 C		8.2	--	3	--	--	--	46 5	8	--	--	--	--	--	--
10/17/72 1345	5001 5050	18 C	7.6	7.2 7.5	--	3	--	--	--	45 5	14	--	--	--	--	--	--
11/16/72 1325	5001 5050	13 C	9.4	7.9 7.6	--	3	--	--	--	39 5	8	--	--	--	--	--	--

TABLE D-5 (CONTINUED)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBA5	DEPTH TURB	T+L CHLR	SET S		BOD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								0+G COLOR	ML/L MG/L								
R9 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL CONTINUED																	
02/14/73 1515	5001 5050	10.0C	9.8	7.6 7.5	--	3	--	--	--	93	5	20	--	--	--	--	--
03/13/73 1113	5001 5050	14 C	10.0	8.0 7.5	--	3	--	--	--	31	5	10	--	--	--	--	--
03/28/73 1135	5001 5050	13.0C 395	10.2	7.6 7.6	--	3	--	--	--	24	5	8	--	--	--	--	--
04/10/73 1115	5001 5050	16.0C 400	9.3	7.2 7.5	--	3	--	--	--	1.7 R 24	5	4	--	--	--	--	--
04/25/73 1310	5001 5050	17.0C 335	11.1	8.4 7.7	--	3	--	--	--	--	5	4	--	--	--	--	--
05/08/73 1105	5001 5050	17.0C 615	9.0	7.9 7.6	--	3	--	--	--	1.8 P 50	5	8	--	--	--	--	--
05/30/73 1730	5001 5050	21.0C 560	9.3	7.7 8.1	--	3	--	--	--	--	5	11	--	--	--	--	--
06/11/73 1510	5001 5050	23.0C 552	7.3	7.7 7.8	--	3	--	--	--	1.1 R 51	5	8	--	--	--	--	--
06/11/73 1511	5001 5050	23.0C 650			--	35	--	--	--	--	5	11	--	--	--	--	--
06/27/73 1615	5001 5050	24.0C 1550	7.5	7.8 7.9	--	3	--	--	--	--	5	7	--	--	--	--	--
06/27/73 1616	5001 5050	1950		7.7	--	33	--	--	--	--	5	12	--	--	--	--	--
07/09/73 1355	5001 5050	24.0C 2610	7.3	7.7 7.7	--	3	--	--	--	0.9 R 46	5	6	--	--	--	--	--
07/09/73 1356	5001 5050	2900			--	34	--	--	--	--	5	9	--	--	--	--	--
08/06/73 1320	5001 5050	22.0C 3210	8.0	7.4 8.1	--	3	--	--	--	1.0 R 49	5	5	--	--	--	--	--
08/06/73 1321	5001 5050	21.0C 3380			--	31	--	--	--	--	5	7	--	--	--	--	--
08/22/73 1300	5001 5050	21.0C 2340	7.8	7.8 8.0	--	3	--	--	--	--	5	10	--	--	--	--	--
09/04/73 1140	5001 5050	20.0C 2310		7.5	--	12	--	--	--	--	5	6	--	--	--	--	--
09/19/73 1130	5001 5050	20.0C 749	7.8	8.0 8.0	--	3	--	--	--	--	5	8	--	--	--	--	--
R9 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18																	
09/13/73 0645	5050 5050	20 C 220	5.7		--	3	--	--	--	1.1 R 24	5	3	--	--	--	--	--
09/13/73 0646	5050 5050	20 C 222	5.5		--	32	--	--	--	--	5	5	--	--	--	--	--
09/21/73 0635	5050 5050	22 C 336	6.5		--	3	--	--	--	2.2 R 35	5	6	--	--	--	--	--
09/21/73 0736	5050 5050	22 C 324	6.1		--	33	--	--	--	--	5	6	--	--	--	--	--
R9 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)																	
03/13/73 1140	5001 5050	12 C	10.0	7.9 6.9	--	3	--	--	--	--	5	11	--	--	--	--	--
03/27/73 1110	5001 5050	13.0C 375	9.9	7.4 7.7	--	3	--	--	--	--	5	6	--	--	--	--	--
04/10/73 1155	5001 5050	16.0C 412	9.4	7.4 7.8	--	3	--	--	--	--	5	8	--	--	--	--	--
04/24/73 0930	5001 5050	17.0C 370	10.5	8.0 7.6	--	3	--	--	--	--	5	5	--	--	--	--	--
04/24/73 0931	5001 5050	372			--	15	--	--	--	--	5	3	--	--	--	--	--
04/24/73 0932	5001 5050	372			--		--	--	--	--	5	6	--	--	--	--	--
04/24/73 0933	5001 5050	375			--	35	--	--	--	--	5	4	--	--	--	--	--
05/08/73 1150	5001 5050	18.0C 410	8.9	8.0 7.5	--	3	--	--	--	--	5	5	--	--	--	--	--
05/29/73 1530	5001 5050	21.0C 435	7.6	7.6 7.5	--	3	--	--	--	--	5	6	--	--	--	--	--
06/11/73 1550	5001 5050	24.0C 515	7.4	7.7 7.9	--	3	--	--	--	--	5	7	--	--	--	--	--
06/11/73 1551	5001 5050	24.0C 530			--	38	--	--	--	--	5	8	--	--	--	--	--
06/25/73 1340	5001 5050	23.0C 820	7.8	7.4 8.0	--	3	--	--	--	--	5	6	--	--	--	--	--
06/25/73 1341	5001 5050				--	36	--	--	--	--	5	8	--	--	--	--	--
07/09/73 1435	5001 5050	24.0C 1840	7.5	7.8 7.7	--	3	--	--	--	--	5	7	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	O+G ML/L COLOR	SET S MG/L	ROD SUS S	COO V SUS S	CYANIOE PMFNOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12) CONTINUED																	
07/09/73	5001					38	--	--	--	--	--	--	--	--	--	--	--
1436	5050	2290			--					53	5	8	--	--	--	--	--
08/06/73	5001	22.0C	7.9	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1355	5050	2355		8.1	--					34	5	3	--	--	--	--	--
08/06/73	5001	21.0C				35	--	--	--	--	--	--	--	--	--	--	--
1356	5050	2460			--					39	5	5	--	--	--	--	--
08/21/73	5001	22.0C	7.6	6.8		3	--	--	--	--	--	--	--	--	--	--	--
1100	5050	1540			--					40	5	5	--	--	--	--	--
08/21/73	5001	22.0C		6.9		33	--	--	--	--	--	--	--	--	--	--	--
1101	5050	1738			--					79	5	11	--	--	--	--	--
08/28/73	5001	20.0C				3	--	--	--	--	--	--	--	--	--	--	--
1245	5050	765			--					37	5	6	--	--	--	--	--
08/28/73	5001	21.0C				15	--	--	--	--	--	--	--	--	--	--	--
1246	5050	801			--					37	5	6	--	--	--	--	--
08/28/73	5001	22.0C				27	--	--	--	--	--	--	--	--	--	--	--
1247	5050	856			--					46	5	6	--	--	--	--	--
08/28/73	5001	21.0C				3	--	--	--	--	--	--	--	--	--	--	--
1445	5050	12920			--					44	5	7	--	--	--	--	--
08/28/73	5001	21.0C				15	--	--	--	--	--	--	--	--	--	--	--
1446	5050	12600			--					51	5	7	--	--	--	--	--
08/28/73	5001	21.0C				31	--	--	--	--	--	--	--	--	--	--	--
1447	5050	14000			--					55	5	8	--	--	--	--	--
08/28/73	5001	21.0C				3	--	--	--	--	--	--	--	--	--	--	--
1645	5050	19880			--					60	5	9	--	--	--	--	--
08/28/73	5001	22.0C				15	--	--	--	--	--	--	--	--	--	--	--
1646	5050	19300			--					65	5	8	--	--	--	--	--
08/28/73	5001	22.0C				32	--	--	--	--	--	--	--	--	--	--	--
1647	5050	19620			--					71	5	10	--	--	--	--	--
08/28/73	5001	21.0C				3	--	--	--	--	--	--	--	--	--	--	--
1845	5050	17840			--					50	5	7	--	--	--	--	--
08/28/73	5001	22.0C				15	--	--	--	--	--	--	--	--	--	--	--
1846	5050	21000			--					48	5	6	--	--	--	--	--
08/28/73	5001	22.0C				31	--	--	--	--	--	--	--	--	--	--	--
1847	5050	21280			--					54	5	8	--	--	--	--	--
09/04/73	5001	20.0C	7.6	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1205	5050	1550			--					43	5	3	--	--	--	--	--
09/04/73	5001	20.0C		7.6		33	--	--	--	--	--	--	--	--	--	--	--
1206	5050	1650			--					69	5	7	--	--	--	--	--
09/18/73	5001	20.0C	7.6	7.4		3	--	--	--	--	--	--	--	--	--	--	--
1100	5050	698			--					39	5	6	--	--	--	--	--
89 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT																	
03/28/73	5001	13.0C	10.1	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1120	5050	405		7.7	--					25	5	8	--	--	--	--	--
04/25/73	5001	17.0C	10.6	8.2		3	--	--	--	--	--	--	--	--	--	--	--
1240	5050	334		7.8	--					38	5	7	--	--	--	--	--
05/30/73	5001	21.0C	8.3	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1705	5050	1060		8.2	--					44	5	8	--	--	--	--	--
06/27/73	5001	24.0C	7.9	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1550	5050	3300		7.6	--					52	5	7	--	--	--	--	--
06/27/73	5001			7.7		43	--	--	--	--	--	--	--	--	--	--	--
1551	5050	3600			--					90	5	10	--	--	--	--	--
08/22/73	5001	21.0C	8.5	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1240	5050	3950		8.0	--					66	5	11	--	--	--	--	--
08/22/73	5001	21.0C		7.8		40	--	--	--	--	--	--	--	--	--	--	--
1241	5050	4180			--					98	5	14	--	--	--	--	--
09/19/73	5001	20.0C	7.9	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1110	5050	1320		7.9	--					67	5	10	--	--	--	--	--
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																	
03/13/73	5001	12 C	10.0	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1330	5050			7.7	--					29	5	8	--	--	--	--	--
03/27/73	5001	14.0C	10.1	7.5		3	--	--	--	--	--	--	--	--	--	--	--
1315	5050	575		7.7	--					20	5	8	--	--	--	--	--
04/24/73	5001	17.0C	9.8	7.2		3	--	--	--	--	--	--	--	--	--	--	--
1240	5050	300		7.6	--					36	5	6	--	--	--	--	--
05/08/73	5001	19.0C	9.5	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1440	5050	222		7.5	--					37	5	5	--	--	--	--	--
05/29/73	5001	23.0C	9.1	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1750	5050	230		7.7	--					22	5	4	--	--	--	--	--
06/11/73	5001	23.0C	8.4	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1825	5050	228		8.1	--					26	5	5	--	--	--	--	--
06/26/73	5001	25.0C	8.6	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1750	5050	290		8.1	--					28	5	7	--	--	--	--	--
07/09/73	5001	26.0C	9.4	8.1		3	--	--	--	--	--	--	--	--	--	--	--
1700	5050	721		8.1	--					28	5	6	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T+L CHLOR	O+G COLOR	SET 5 ML/L MG/L	BOD SUS 5	COD SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
R9 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING CONTINUED																	
08/06/73	5001	22.0C	8.7	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1545	5050	575		7.8	--		--	--	--	39	5	4	--	--	--	--	--
08/21/73	5001	22.0C	8.9	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1335	5050	500		8.2	--		--	--	--	24	5	4	--	--	--	--	--
09/04/73	5001	21.0C	8.2	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1445	5050	455		8.0	--		--	--	--	39	5	7	--	--	--	--	--
09/18/73	5001	20.0C	8.8	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1320	5050	292		7.8	--		--	--	--	34	5	6	--	--	--	--	--
R9 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																	
03/15/73	5001	12 C	10.9	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1330	5050			7.5	--		--	--	--	46	5	10	--	--	--	--	--
03/29/73	5001	13.0C	10.4	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1150	5050	321		7.6	--		--	--	--	33	5	9	--	--	--	--	--
04/12/73	5001	16.0C	9.4	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1225	5050	368		7.7	--		--	--	--	49	5	10	--	--	--	--	--
04/26/73	5001	17.0C	12.6	8.5		3	--	--	--	--	--	--	--	--	--	--	--
1125	5050	320		7.7	--		--	--	--	32	5	6	--	--	--	--	--
05/10/73	5001	18.0C	9.5	8.1		3	--	--	--	--	--	--	--	--	--	--	--
1150	5050	615		7.7	--		--	--	--	33	5	6	--	--	--	--	--
05/31/73	5001	20.0C	8.6	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1650	5050	475		7.9	--		--	--	--	62	5	12	--	--	--	--	--
06/13/73	5001	22.0C	7.8	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1700	5050	680		8.1	--		--	--	--	63	5	8	--	--	--	--	--
06/26/73	5001	24.0C	7.9	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1450	5050	1950		7.9	--		--	--	--	48	5	7	--	--	--	--	--
07/11/73	5001	23.0C	8.2	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1620	5050	1468		8.3	--		--	--	--	39	5	4	--	--	--	--	--
08/08/73	5001	21.0C	8.4	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1440	5050	2260		8.2	--		--	--	--	58	5	7	--	--	--	--	--
08/23/73	5001	21.0C	8.3	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1400	5050	2040		8.0	--		--	--	--	80	5	10	--	--	--	--	--
09/06/73	5001	20.0C	6.8	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1350	5050	1240		8.3	--		--	--	--	48	5	6	--	--	--	--	--
09/20/73	5001	20.0C	7.1	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1200	5050	621		7.8	--		--	--	--	59	5	8	--	--	--	--	--
R9 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																	
03/06/73	5001	12 C	7.4	7.5		3	--	--	--	--	--	--	--	--	--	--	--
0940	5050			6.9	--		--	--	--	84	5	30	--	--	--	--	--
04/03/73	5001	13 C	12.3	8.0		2	--	--	--	--	--	--	--	--	--	--	--
0910	5050	419		7.3	--		--	--	--	82	5	19	--	--	--	--	--
05/01/73	5001	18 C	8.5	7.7		3	--	--	--	--	--	--	--	--	--	--	--
0720	5050	248		7.4	--		--	--	--	45	5	9	--	--	--	--	--
06/05/73	5001	23 C	8.4	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1200	5050	220		7.9	--		--	--	--	80	5	17	--	--	--	--	--
07/02/73	5001	26 C	9.3	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1110	5050	235		8.0	--		--	--	--	82	5	14	--	--	--	--	--
07/31/73	5001	25 C	7.9	7.9		3	--	--	--	--	--	--	--	--	--	--	--
0950	5050	260		8.3	--		--	--	--	68	5	13	--	--	--	--	--
08/28/73	5001	23.0C	7.0	8.2		3	--	--	--	--	--	--	--	--	--	--	--
1000	5050	219		8.1	--		--	--	--	79	5	12	--	--	--	--	--
09/25/73	5001	18 C	6.8	7.9		3	--	--	--	--	--	--	--	--	--	--	--
0740	5050	189		8.0	--		--	--	--	76	5	10	--	--	--	--	--
R9 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																	
10/04/72	5001	20 C	8.8	8.3		3	--	--	--	--	--	--	--	--	--	--	--
1710	5050				--		--	--	--	31	5	8	--	--	--	--	--
10/17/72	5001	18 C	8.0	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1450	5050			7.5	--		--	--	--	35	5	5	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1050	5050				--		--	--	--	39	5	6	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1125	5050				--		--	--	--	34	5	4	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1424	5050				--		--	--	--	24	5	4	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1506	5050				--		--	--	--	36	5	6	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1600	5050				--		--	--	--	34	5	6	--	--	--	--	--
10/19/72	5001						--	--	--	--	--	--	--	--	--	--	--
1645	5050				--		--	--	--	25	5	4	--	--	--	--	--
11/16/72	5001	13 C	9.5	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1425	5050			7.6	--		--	--	--	34	5	8	--	--	--	--	--
02/14/73	5001		9.8	7.5		3	--	--	--	--	--	--	--	--	--	--	--
1630	5050			7.5	--		--	--	--	52	5	21	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET 5 ML/L MG/L	ROD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT CONTINUED																	
03/13/73	5001	12 C	10.1	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
1230	5050			7.6	--					31	5	8	--	--	--	--	--
03/27/73	5001	13.0C	10.1	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
1205	5050	420		7.7	--					22	5	7	--	--	--	--	--
04/10/73	5001	15.0C	9.6	7.5	--	3	--	--	--	--	--	--	--	--	--	--	--
1255	5050	395		7.7	--					29	5	8	--	--	--	--	--
04/24/73	5001	16.0C	11.0	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1050	5050	310		7.7	--					26	5	5	--	--	--	--	--
05/08/73	5001	18.0C	9.2	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1255	5050	235		7.7	--					34	5	4	--	--	--	--	--
05/29/73	5001	22.0C	7.8	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
1625	5050	260		7.5	--					38	5	4	--	--	--	--	--
06/11/73	5001	23.0C	7.9	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
1650	5050	302		8.1	--					33	5	6	--	--	--	--	--
06/11/73	5001	23.0C			--	47	--	--	--	--	--	--	--	--	--	--	--
1651	5050	300			--					37	5	4	--	--	--	--	--
06/27/73	5001	25.0C	7.8	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1645	5050	550		7.8	--					34	5	9	--	--	--	--	--
06/27/73	5001			7.8	--	45	--	--	--	--	--	--	--	--	--	--	--
1646	5050	650			--					47	5	8	--	--	--	--	--
07/09/73	5001	25.0C	7.5	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
1530	5050	1420		7.7	--					35	5	6	--	--	--	--	--
07/09/73	5001				--	45	--	--	--	--	--	--	--	--	--	--	--
1531	5050	1430			--					46	5	8	--	--	--	--	--
08/06/73	5001	22.0C	8.5	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
1445	5050	1205		8.2	--					28	5	2	--	--	--	--	--
08/06/73	5001	22.0C			--	42	--	--	--	--	--	--	--	--	--	--	--
1446	5050	1218			--					29	5	4	--	--	--	--	--
08/21/73	5001	22.0C	8.1	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
1205	5050	750		7.8	--					40	5	5	--	--	--	--	--
08/21/73	5001	22.0C		7.7	--	45	--	--	--	--	--	--	--	--	--	--	--
1206	5050	869			--					46	5	7	--	--	--	--	--
09/04/73	5001	20.0C	7.9	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
1305	5050	835		8.0	--					32	5	2	--	--	--	--	--
09/04/73	5001	20.0C	7.9	7.9	--	41	--	--	--	--	--	--	--	--	--	--	--
1306	5050	881			--					45	5	4	--	--	--	--	--
09/18/73	5001	20.0C	8.5	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1200	5050	367		8.1	--					30	5	4	--	--	--	--	--
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																	
03/15/73	5001	11 C	10.8	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1315	5050			7.2	--					53	5	12	--	--	--	--	--
03/29/73	5001	12.0C	10.6	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1125	5050	315		7.7	--					28	5	8	--	--	--	--	--
04/12/73	5001	15.0C	9.5	7.6	--	3	--	--	--	1.6 R	--	--	--	--	--	--	--
1205	5050	328		7.7	--					30	5	3	--	--	--	--	--
04/26/73	5001	16.0C	11.1	8.5	--	3	--	--	--	--	--	--	--	--	--	--	--
1100	5050	280		7.7	--					26	5	6	--	--	--	--	--
05/10/73	5001	18.0C	9.1	8.0	--	3	--	--	--	1.3 R	--	--	--	--	--	--	--
1110	5050	850		7.9	--					37	5	7	--	--	--	--	--
05/31/73	5001	20.0C	8.3	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1600	5050	575		8.0	--					76	5	14	--	--	--	--	--
06/13/73	5001	21.0C	8.0	7.8	--	3	--	--	--	1.0 R	--	--	--	--	--	--	--
1630	5050	835		8.0	--					82	5	13	--	--	--	--	--
06/26/73	5001	23.0C	7.9	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
1415	5050	1080		8.2	--					66	5	9	--	--	--	--	--
06/26/73	5001				--	36	--	--	--	--	--	--	--	--	--	--	--
1416	5050	1800			--					76	5	12	--	--	--	--	--
07/11/73	5001	23.0C	8.0	7.9	--	3	--	--	--	1.1 R	--	--	--	--	--	--	--
1555	5050	3562		8.3	--					50	5	6	--	--	--	--	--
07/11/73	5001				--	35	--	--	--	--	--	--	--	--	--	--	--
1556	5050	4204			--					102	5	13	--	--	--	--	--
08/08/73	5001	20.0C	9.2	8.1	--	3	--	--	--	1.2 R	--	--	--	--	--	--	--
1420	5050	4120		8.2	--					62	5	8	--	--	--	--	--
08/08/73	5001	20.0C			--	34	--	--	--	--	--	--	--	--	--	--	--
1421	5050	4300			--					66	5	8	--	--	--	--	--
08/23/73	5001	20.0C	8.2	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
1340	5050	3520		8.0	--					90	5	13	--	--	--	--	--
08/23/73	5001	20.0C		7.8	--	33	--	--	--	--	--	--	--	--	--	--	--
1341	5050	3390			--					115	5	15	--	--	--	--	--
08/29/73	5001	21.0C			--	3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	1168			--					40	5	4	--	--	--	--	--
08/29/73	5001	21.0C			--	3	--	--	--	--	--	--	--	--	--	--	--
1400	5050	1824			--					43	5	6	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	DO-G ML/L COLOR	SET 5 MG/L	ROD SUS S	COD SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T OODR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 803.8 149.2		SACRAMENTO RIVER ABOVE POINT SACRAMENTO										CONTINUED					
08/29/73 1401	5001 5050	21.0C 2456			--	15	--	--	--	59	5	8	--	--	--	--	--
08/29/73 1402	5001 5050	21.0C 2470			--	31	--	--	--	79	5	10	--	--	--	--	--
08/29/73 1645	5001 5050	21.0C 3130			--	3	--	--	--	38	5	6	--	--	--	--	--
08/29/73 1646	5001 5050	21.0C 3622			--	15	--	--	--	194	5	23	--	--	--	--	--
08/29/73 1647	5001 5050	22.0C 3654			--	29	--	--	--	272	5	31	--	--	--	--	--
08/29/73 1800	5001 5050	20.0C 3454			--	3	--	--	--	62	5	10	--	--	--	--	--
08/29/73 1801	5001 5050	21.0C 4548			--	15	--	--	--	128	5	16	--	--	--	--	--
08/29/73 1802	5001 5050	21.0C 4446			--	29	--	--	--	240	5	28	--	--	--	--	--
08/29/73 1900	5001 5050	21.0C 3478			--	3	--	--	--	57	5	10	--	--	--	--	--
08/29/73 1901	5001 5050	21.0C 4192			--	15	--	--	--	63	5	10	--	--	--	--	--
08/29/73 1902	5001 5050	21.0C 4720			--	29	--	--	--	75	5	11	--	--	--	--	--
09/06/73 1335	5001 5050	20.0C 2120	6.6	8.0 8.2	--	3	--	--	--	0.8 50	5	-- 5	--	--	--	--	--
09/06/73 1336	5001 5050	21.0C 2320		7.9	--	31	--	--	--	80	5	10	--	--	--	--	--
09/20/73 1140	5001 5050	20.0C 689	7.1	7.9	--	3	--	--	--	65	5	9	--	--	--	--	--
B9 D 804.7 134.0		SAN JOAQUIN RIVER AT POTATO POINT															
10/17/72 1555	5001 5050	18 C 7.6 7.4	8.2	7.6 7.4	--	3	--	--	--	27	5	4	--	--	--	--	--
11/15/72 1405	5001 5050	12 C 7.7 7.6	10.3	7.7 7.6	--	3	--	--	--	42	5	9	--	--	--	--	--
03/13/73 1400	5001 5050	12 C 7.8 7.7	9.6	7.8 7.7	--	3	--	--	--	30	5	8	--	--	--	--	--
03/27/73 1255	5001 5050	13.0C 430	10.1	7.3 7.6	--	3	--	--	--	22	5	8	--	--	--	--	--
04/10/73 1405	5001 5050	16.0C 372	9.4	7.4 7.6	--	3	--	--	--	44	5	10	--	--	--	--	--
04/24/73 1205	5001 5050	16.0C 266	9.5	7.5 7.6	--	3	--	--	--	30	5	6	--	--	--	--	--
05/08/73 1410	5001 5050	18.0C 205	8.4	7.8 7.5	--	3	--	--	--	36	5	4	--	--	--	--	--
05/29/73 1725	5001 5050	21.0C 210		7.6 7.7	--	3	--	--	--	27	5	3	--	--	--	--	--
06/11/73 1755	5001 5050	23.0C 203	7.8	7.7 7.9	--	3	--	--	--	24	5	4	--	--	--	--	--
06/11/73 1756	5001 5050	23.0C 200			--	39	--	--	--	32	5	3	--	--	--	--	--
06/26/73 1720	5001 5050	24.0C 195	8.2	7.8 7.9	--	3	--	--	--	26	5	6	--	--	--	--	--
06/26/73 1721	5001 5050	195			--	41	--	--	--	47	5	8	--	--	--	--	--
07/09/73 1630	5001 5050	25.0C 355	8.1	7.8 7.8	--	3	--	--	--	26	5	5	--	--	--	--	--
07/09/73 1636	5001 5050	444			--	41	--	--	--	32	5	6	--	--	--	--	--
08/06/73 1620	5001 5050	23.0C 277	8.4	8.0 8.2	--	3	--	--	--	22	5	2	--	--	--	--	--
08/06/73 1621	5001 5050	23.0C 268			--	38	--	--	--	26	5	3	--	--	--	--	--
08/21/73 1310	5001 5050	23.0C 223	7.8	7.9 8.2	--	3	--	--	--	18	5	2	--	--	--	--	--
08/21/73 1311	5001 5050	22.0C 230		7.7	--	39	--	--	--	30	5	3	--	--	--	--	--
09/04/73 1415	5001 5050	21.0C 238	8.0	7.9 8.2	--	3	--	--	--	26	5	5	--	--	--	--	--
09/04/73 1416	5001 5050	21.0C 242		7.8	--	43	--	--	--	31	5	6	--	--	--	--	--
09/18/73 1300	5001 5050	21.0C 200	8.3	7.9 7.9	--	3	--	--	--	24	5	4	--	--	--	--	--

TABLE D-5 (CONTINUED)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	O+G COLOR	SET S ML/L MG/L	80D SUS S	COO V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON																	
03/15/73 1400	5001 5050	12 C	10.8	8.0 6.9	--	3	--	--	--	63 5	13	--	--	--	--	--	--
03/29/73 1225	5001 5050	13.0C	10.7	7.6 7.7	--	3	--	--	--	21 5	7	--	--	--	--	--	--
04/12/73 1300	5001 5050	16.0C	9.5	7.7 7.7	--	3	--	--	--	84 5	14	--	--	--	--	--	--
04/26/73 1205	5001 5050	18.0C	11.8	8.4 7.7	--	3	--	--	--	20 5	5	--	--	--	--	--	--
05/10/73 1220	5001 5050	18.0C	9.3	8.1 7.7	--	3	--	--	--	28 5	5	--	--	--	--	--	--
05/31/73 1720	5001 5050	20.0C	8.6	7.7 8.6	--	3	--	--	--	39 5	9	--	--	--	--	--	--
06/13/73 1730	5001 5050	21.0C	8.3	7.9 8.0	--	3	--	--	--	36 5	6	--	--	--	--	--	--
06/13/73 1731	5001 5050	21.0C		269	--	50	--	--	--	46 5	8	--	--	--	--	--	--
06/26/73 1520	5001 5050	23.0C	8.2	7.8 8.2	--	3	--	--	--	33 5	5	--	--	--	--	--	--
06/26/73 1521	5001 5050			410	--	43	--	--	--	46 5	6	--	--	--	--	--	--
07/11/73 1650	5001 5050	23.0C	8.3	7.9 8.1	--	3	--	--	--	28 5	3	--	--	--	--	--	--
07/11/73 1651	5001 5050	9 939			--	39	--	--	--	44 5	5	--	--	--	--	--	--
08/08/73 1505	5001 5050	21.0C	8.7	8.0 8.2	--	3	--	--	--	47 5	6	--	--	--	--	--	--
08/08/73 1506	5001 5050	20.0C		1140	--	40	--	--	--	55 5	7	--	--	--	--	--	--
08/23/73 1410	5001 5050	20.0C	8.7	7.9 8.1	--	3	--	--	--	45 5	6	--	--	--	--	--	--
08/23/73 1411	5001 5050	20.0C		695	--	32	--	--	--	61 5	8	--	--	--	--	--	--
09/06/73 1430	5001 5050	20.0C	7.1	8.2 8.3	--	3	--	--	--	32 5	4	--	--	--	--	--	--
09/06/73 1431	5001 5050	20.0C		482	--	39	--	--	--	42 5	6	--	--	--	--	--	--
09/20/73 1230	5001 5050	20.0C	7.9	7.9	--	3	--	--	--	33 5	5	--	--	--	--	--	--
89 D 805.2 124.1 WHITE SLOUGH AT RIO BLANCO TRACT																	
04/03/73 0820	5001 5050	13 C	7.4	7.3 7.5	--	3	--	--	--	42 5	17	--	--	--	--	--	--
05/01/73 0620	5001 5050	18 C	7.7	7.5 7.4	--	3	--	--	--	50 5	12	--	--	--	--	--	--
06/05/73 1030	5001 5050	23 C	6.8	7.9 7.9	--	3	--	--	--	45 5	14	--	--	--	--	--	--
07/02/73 0945	5001 5050	25 C	3.4	7.4 8.2	--	3	--	--	--	43 5	10	--	--	--	--	--	--
07/31/73 0845	5001 5050	25 C	0.9	7.6 8.0	--	3	--	--	--	28 5	9	--	--	--	--	--	--
08/28/73 0855	5001 5050	21.0C	2.9	7.7 8.7	--	3	--	--	--	24 5	8	--	--	--	--	--	--
09/25/73 0645	5001 5050	18 C	2.1	7.7 8.5	--	3	--	--	--	36 5	8	--	--	--	--	--	--
89 D 805.2 126.0 WHITE SLOUGH NEAR LODI																	
03/06/73 0835	5001 5050	12 C	8.0	7.5 7.6	--	3	--	--	--	31 5	10	--	--	--	--	--	--
89 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND																	
03/13/73 1300	5001 5050	11 C	10.1	7.8 7.6	--	3	--	--	--	40 5	9	--	--	--	--	--	--
03/27/73 1225	5001 5050	13.0C	10.0	7.4 7.7	--	3	--	--	--	22 5	6	--	--	--	--	--	--
04/10/73 1320	5001 5050	16.0C	9.8	7.5 7.5	--	3	--	--	--	1.9 R 21 5	3	--	--	--	--	--	--
04/24/73 1118	5001 5050	16.0C	10.6	7.6 7.8	--	3	--	--	--	31 5	6	--	--	--	--	--	--
05/08/73 1330	5001 5050	18.0C	9.0	7.9 7.6	--	3	--	--	--	1.8 R 37 5	8	--	--	--	--	--	--
05/29/73 1655	5001 5050	21.0C	8.2	7.7 7.7	--	3	--	--	--	31 5	3	--	--	--	--	--	--
06/11/73 1720	5001 5050	23.0C	8.0	7.8 7.8	--	3	--	--	--	1.1 R 30 5	6	--	--	--	--	--	--
06/11/73 1721	5001 5050	22.0C		259	--	52	--	--	--	34 5	4	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	NO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET S		BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								D+G COLOR	ML/L MG/L								
R9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND CONTINUED																	
06/26/73	5001	23.0C	8.1	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1645	5050	360		8.0	--		--	--	--	26	5	6	--	--	--	--	--
06/26/73	5001	26.0C			--		--	--	--	30	5	6	--	--	--	--	--
1646	5050	350			--		--	--	--				--	--	--	--	--
07/09/73	5001	24.0C	8.1	7.9		3	--	--	--	1.0	R	--	--	--	--	--	--
1550	5050	835		8.0	--		--	--	--	32	5	6	--	--	--	--	--
07/09/73	5001				--	53	--	--	--	--	--	--	--	--	--	--	--
1551	5050	864			--		--	--	--	38	5	5	--	--	--	--	--
08/06/73	5001	22.0C	8.5	7.9		3	--	--	--	0.7	R	--	--	--	--	--	--
1510	5050	759		8.3	--		--	--	--	36	5	4	--	--	--	--	--
08/06/73	5001	22.0C			--	50	--	--	--	--	--	--	--	--	--	--	--
1511	5050	802			--		--	--	--	34	5	4	--	--	--	--	--
08/21/73	5001	22.0C	8.3	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1230	5050	594		8.2	--		--	--	--	31	5	4	--	--	--	--	--
08/21/73	5001	22.0C		7.8	--	47	--	--	--	--	--	--	--	--	--	--	--
1231	5050	623			--		--	--	--	46	5	6	--	--	--	--	--
09/04/73	5001	20.0C	7.7	7.9		3	--	--	--	0.7	R	--	--	--	--	--	--
1335	5050	542		8.1	--		--	--	--	13	5	4	--	--	--	--	--
09/04/73	5001	22.0C		7.8	--	47	--	--	--	--	--	--	--	--	--	--	--
1336	5050	559			--		--	--	--	38	5	4	--	--	--	--	--
09/18/73	5001	20.0C	8.2	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1220	5050	283		8.0	--		--	--	--	26	5	4	--	--	--	--	--
R9 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																	
03/07/73	5001	12 C	10.9	7.3		3	--	--	--	--	--	--	--	--	--	--	--
1500	5050			7.5	--		--	--	--	35	5	14	--	--	--	--	--
04/04/73	5001	13 C	10.3	7.6		3	--	--	--	1.4	R	--	--	--	--	--	--
1030	5050	210		7.4	--		--	--	--	23	5	4	--	--	--	--	--
05/02/73	5001	17 C	8.6	7.1		3	--	--	--	1.2	R	--	--	--	--	--	--
0900	5050	158		7.6	--		--	--	--	36	5	9	--	--	--	--	--
06/06/73	5001	23 C	7.5	7.5		3	--	--	--	0.9	R	--	--	--	--	--	--
1210	5050	180		7.9	--		--	--	--	42	5	6	--	--	--	--	--
07/03/73	5001	24 C	7.5	7.7		3	--	--	--	1.1	R	--	--	--	--	--	--
1150	5050	190		7.7	--		--	--	--	30	5	6	--	--	--	--	--
08/01/73	5001	24 C	8.1	7.9		3	--	--	--	1.0	R	--	--	--	--	--	--
1220	5050	185		8.0	--		--	--	--	30	5	4	--	--	--	--	--
08/29/73	5001	22.0C	8.0	7.8		3	--	--	--	1.1	R	--	--	--	--	--	--
1115	5050	195		8.3	--		--	--	--	19	5	2	--	--	--	--	--
09/26/73	5001	18 C	7.6	8.0		3	--	--	--	1.4	R	--	--	--	--	--	--
0855	5050	175		7.8	--		--	--	--	22	5	4	--	--	--	--	--
R9 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN																	
03/07/73	5001	13 C	0.1	7.1		3	--	--	--	--	--	--	--	--	--	--	--
1315	5050			7.1	--		--	--	--	9	5	81	--	--	--	--	--
04/04/73	5001	17 C	7.7	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1335	5050	448		7.2	--		--	--	--	101	5	35	--	--	--	--	--
05/02/73	5001	21 C	4.6	7.4		1	--	--	--	--	--	--	--	--	--	--	--
1145	5050	210		7.3	--		--	--	--	76	5	28	--	--	--	--	--
06/06/73	5001	28 C	1.6	7.3		1.5	--	--	--	--	--	--	--	--	--	--	--
1455	5050	340		7.0	--		--	--	--	65	5	36	--	--	--	--	--
07/03/73	5001	29 C	10.7	7.8		0.5	--	--	--	--	--	--	--	--	--	--	--
1440	5050	182		7.7	--		--	--	--	68	5	22	--	--	--	--	--
08/01/73	5001	25 C	8.5	7.8		1	--	--	--	--	--	--	--	--	--	--	--
1505	5050	186		7.4	--		--	--	--	49	5	14	--	--	--	--	--
08/29/73	5001	25.0C	5.0	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1355	5050	250		7.6	--		--	--	--	36	5	11	--	--	--	--	--
09/26/73	5001	20 C	0.6	7.4		1	--	--	--	--	--	--	--	--	--	--	--
1200	5050	255		7.4	--		--	--	--	30	5	20	--	--	--	--	--
R9 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE																	
10/18/72	5001	17 C	8.7	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1600	5050			7.6	--		--	--	--	16	5	2	--	--	--	--	--
11/15/72	5001	12 C	10.1	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1230	5050			7.6	--		--	--	--	37	5	8	--	--	--	--	--
03/15/73	5001	10 C	11.1	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1425	5050			6.9	--		--	--	--	71	5	12	--	--	--	--	--
03/29/73	5001	13.0C	10.2	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	250		7.7	--		--	--	--	25	5	9	--	--	--	--	--
04/12/73	5001	16.0C	9.4	7.7		3	--	--	--	--	--	--	--	--	--	--	--
1330	5050	258		7.7	--		--	--	--	55	5	10	--	--	--	--	--
04/26/73	5001	17.0C	9.6	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1235	5050	200		7.6	--		--	--	--	18	5	3	--	--	--	--	--
04/26/73	5001				--	15	--	--	--	--	--	--	--	--	--	--	--
1236	5050	203			--		--	--	--	24	5	2	--	--	--	--	--
04/26/73	5001				--	25	--	--	--	--	--	--	--	--	--	--	--
1237	5050	204			--		--	--	--	28	5	4	--	--	--	--	--

TABLE D-5 (CONTINUED)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MGAS	DEPTH TURR	T-L CHLOR	SET S		BOD SUS S	COND V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								O+G COLOR	ML/L MG/L								
		89 D 809.4 141.0		SACRAMENTO RIVER BELOW RIO VISTA BRIDGE										CONTINUED			
04/26/73	5001					31	--	--	--	--	--	--	--	--	--	--	--
1238	5050	218			--		--	--	--	27	5	2	--	--	--	--	--
05/10/73	5001	18.0C	9.4	8.0		3	--	--	--	--	--	--	--	--	--	--	--
1255	5050	190		7.9	--		--	--	--	22	5	4	--	--	--	--	--
05/31/73	5001	20.0C	8.4	7.6		3	--	--	--	--	--	--	--	--	--	--	--
1805	5050	215		7.8	--		--	--	--	24	5	8	--	--	--	--	--
06/13/73	5001	21.0C	8.3	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1805	5050	201		8.1	--		--	--	--	20	5	3	--	--	--	--	--
06/13/73	5001					36	--	--	--	--	--	--	--	--	--	--	--
1806	5050				--		--	--	--	37	5	7	--	--	--	--	--
06/26/73	5001	24.0C	8.3	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1550	5050	170		8.0	--		--	--	--	23	5	4	--	--	--	--	--
06/26/73	5001					36	--	--	--	--	--	--	--	--	--	--	--
1551	5050	170			--		--	--	--	37	5	5	--	--	--	--	--
07/11/73	5001	23.0C	8.1	7.8		3	--	--	--	--	--	--	--	--	--	--	--
1720	5050	151		8.2	--		--	--	--	20	5	2	--	--	--	--	--
07/11/73	5001					36	--	--	--	--	--	--	--	--	--	--	--
1721	5050	153			--		--	--	--	31	5	2	--	--	--	--	--
08/08/73	5001	22.0C	8.5	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1540	5050	168		8.1	--		--	--	--	25	5	2	--	--	--	--	--
08/08/73	5001					35	--	--	--	--	--	--	--	--	--	--	--
1541	5050	180			--		--	--	--	26	5	4	--	--	--	--	--
08/23/73	5001	21.0C	8.7	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1500	5050	213		8.1	--		--	--	--	29	5	4	--	--	--	--	--
08/23/73	5001	21.0C		7.9		31	--	--	--	--	--	--	--	--	--	--	--
1501	5050	214			--		--	--	--	32	5	6	--	--	--	--	--
09/06/73	5001	20.0C	7.2	8.1		3	--	--	--	--	--	--	--	--	--	--	--
1500	5050	208		8.3	--		--	--	--	23	5	8	--	--	--	--	--
09/06/73	5001	20.0C		8.1		20	--	--	--	--	--	--	--	--	--	--	--
1501	5050	202			--		--	--	--	23	5	5	--	--	--	--	--
09/20/73	5001	20.0C	6.9	7.9		3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	200			--		--	--	--	19	5	2	--	--	--	--	--
		89 D 809.6 141.1		SACRAMENTO RIVER AT RIO VISTA BRIDGE													
09/14/73	5001	19.0C	6.6			3	--	--	--	--	--	--	--	--	--	--	--
0800	5050	197			--		--	--	--	34	5	2	--	--	--	--	--
09/14/73	5001	19.0C				15	--	--	--	--	--	--	--	--	--	--	--
0801	5050	197			--		--	--	--	36	5	2	--	--	--	--	--
09/14/73	5001	19.0C				30	--	--	--	--	--	--	--	--	--	--	--
0802	5050	200			--		--	--	--	32	5	2	--	--	--	--	--
09/14/73	5001	20.0C	6.8			3	--	--	--	--	--	--	--	--	--	--	--
1000	5050	195			--		--	--	--	37	5	2	--	--	--	--	--
09/14/73	5001	20.0C				15	--	--	--	--	--	--	--	--	--	--	--
1001	5050	195			--		--	--	--	38	5	2	--	--	--	--	--
09/14/73	5001	20.0C				20	--	--	--	--	--	--	--	--	--	--	--
1002	5050	195			--		--	--	--	38	5	1	--	--	--	--	--
09/14/73	5001	19.0C	7.0			3	--	--	--	--	--	--	--	--	--	--	--
1100	5050	188			--		--	--	--	27	5	1	--	--	--	--	--
09/14/73	5001	19.0C				15	--	--	--	--	--	--	--	--	--	--	--
1101	5050	191			--		--	--	--	25	5	0	--	--	--	--	--
09/14/73	5001	20.0C				25	--	--	--	--	--	--	--	--	--	--	--
1102	5050	193			--		--	--	--	28	5	1	--	--	--	--	--
09/14/73	5001	20.0C				3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	190			--		--	--	--	19	5	1	--	--	--	--	--
09/14/73	5001	20.0C				15	--	--	--	--	--	--	--	--	--	--	--
1301	5050	194			--		--	--	--	28	5	3	--	--	--	--	--
09/14/73	5001	20.0C				20	--	--	--	--	--	--	--	--	--	--	--
1302	5050	195			--		--	--	--	25	5	3	--	--	--	--	--
		89 D 810.1 127.9		HOG SLOUGH NEAR THORNTON													
10/17/72	5001	19 C	5.2	7.4		3	--	--	--	--	--	--	--	--	--	--	--
1145	5050				--		--	--	--	26	5	5	--	--	--	--	--
11/21/72	5001	11 C	3.7	7.2		3	--	--	--	--	--	--	--	--	--	--	--
1230	5050				--		--	--	--	43	5	17	--	--	--	--	--
03/07/73	5001	13 C	5.9	7.5		3	--	--	--	--	--	--	--	--	--	--	--
1150	5050			8.1	--		--	--	--	26	5	15	--	--	--	--	--
04/04/73	5001	15 C	9.2	8.3		3	--	--	--	2.5 R	--	--	--	--	--	--	--
1245	5050	1360		8.0	--		--	--	--	22	5	6	--	--	--	--	--
05/02/73	5001	20 C	8.1	7.7		3	--	--	--	2.9 R	--	--	--	--	--	--	--
1100	5050	519		7.7	--		--	--	--	23	5	10	--	--	--	--	--
06/06/73	5001	25 C	7.0	7.8		3	--	--	--	2.7 R	--	--	--	--	--	--	--
1400	5050	410		7.6	--		--	--	--	34	5	6	--	--	--	--	--
07/03/73	5001	26 C	6.5	7.5		3	--	--	--	2.8 R	--	--	--	--	--	--	--
1345	5050	385		7.7	--		--	--	--	32	5	8	--	--	--	--	--
08/01/73	5001	26 C	5.7	7.6		3	--	--	--	3.9 R	--	--	--	--	--	--	--
1410	5050	312		8.0	--		--	--	--	21	5	6	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T+L CHLOR	SET 5		BOD SUS S	COD V SUS S	CYANIDE PHFNOLS	TOC DOC	IODIDE T ODDR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								D+G COLOR	ML/L MG/L								
R9 D 810.1 127.9 HOG SLOUGH NEAR THORNTON CONTINUED																	
08/29/73 1305	5001 5050	25.0C 380	6.6	7.9 7.9	--	3	--	--	--	3.6 R 11 S	-- 3	--	--	--	--	--	--
09/26/73 1040	5001 5050	19 C 390	5.0	7.7 7.6	--	3	--	--	--	2.9 R 28 S	-- 4	--	--	--	--	--	--
R9 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON																	
03/07/73 1055	5001 5050	12 C 810	0.4	7.2 7.6	--	3	--	--	--	-- 34 S	-- 20	--	--	--	--	--	--
04/04/73 1130	5001 5050	14 C 445	10.9	8.0 7.5	--	3	--	--	--	-- 15 S	-- 12	--	--	--	--	--	--
05/02/73 1000	5001 5050	19 C 212	2.4	7.2 7.2	--	3	--	--	--	-- 25 S	-- 10	--	--	--	--	--	--
06/06/73 1305	5001 5050	25 C 170	13.3	9.2 7.7	--	3	--	--	--	-- 30 S	-- 6	--	--	--	--	--	--
07/03/73 1250	5001 5050	26 C 222	10.5	8.4 7.8	--	3	--	--	--	-- 36 S	-- 10	--	--	--	--	--	--
08/01/73 1315	5001 5050	25 C 210	9.2	8.3 8.1	--	3	--	--	--	-- 23 S	-- 3	--	--	--	--	--	--
08/29/73 1205	5001 5050	24.0C 213	10.0	8.7 7.9	--	3	--	--	--	-- 16 S	-- 6	--	--	--	--	--	--
09/26/73 1050	5001 5050	19 C 225	5.5	7.6 7.6	--	3	--	--	--	-- 24 S	-- 6	--	--	--	--	--	--
R9 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON																	
10/17/72 1325	5001 5050	16 C 5050	8.6	7.0	--	3	--	--	--	-- 18 S	-- 2	--	--	--	--	--	--
11/22/72 1045	5001 5050	11 C 5050	9.1	7.5	--	3	--	--	--	-- 45 S	-- 12	--	--	--	--	--	--
03/07/73 1010	5001 5050	10 C 162	10.3	7.2 7.4	--	3	--	--	--	-- 39 S	-- 15	--	--	--	--	--	--
04/04/73 0920	5001 5050	12 C 130	10.1	7.6 7.4	--	3	--	--	--	-- 30 S	-- 8	--	--	--	--	--	--
05/02/73 0810	5001 5050	15 C 56	9.1	6.5 7.2	--	3	--	--	--	-- 19 S	-- 4	--	--	--	--	--	--
06/06/73 1045	5001 5050	20 C 70	8.9	7.0 7.3	--	3	--	--	--	-- 14 S	-- 5	--	--	--	--	--	--
07/03/73 1035	5001 5050	22 C 59	8.2	7.3 7.7	--	3	--	--	--	-- 13 S	-- 5	--	--	--	--	--	--
08/01/73 1030	5001 5050	8.2	7.2 7.8	--	3	--	--	--	--	-- 12 S	-- 2	--	--	--	--	--	--
08/29/73 0955	5001 5050	22.0C 63	7.6	7.1 8.3	--	3	--	--	--	-- 18 S	-- 2	--	--	--	--	--	--
09/26/73 0905	5001 5050	15 C 49	8.6	7.3 7.6	--	3	--	--	--	-- 9 S	-- 0	--	--	--	--	--	--
R9 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																	
03/07/73 0920	5001 5050	12 C 175	4.4	6.8 7.2	--	3	--	--	--	-- 49 S	-- 22	--	--	--	--	--	--
04/04/73 0840	5001 5050	12 C 347	9.1	7.5 7.6	--	3	--	--	--	-- 20 S	-- 8	--	--	--	--	--	--
05/02/73 0730	5001 5050	17 C 377	8.9	7.3 7.5	--	3	--	--	--	-- 23 S	-- 6	--	--	--	--	--	--
06/06/73 1000	5001 5050	24 C 280	8.0	7.4 7.9	--	3	--	--	--	-- 30 S	-- 9	--	--	--	--	--	--
07/03/73 0945	5001 5050	24 C 200	6.3	7.6 7.8	--	3	--	--	--	-- 34 S	-- 7	--	--	--	--	--	--
08/01/73 0930	5001 5050	24 C 180	7.0	7.8 8.2	--	3	--	--	--	-- 32 S	-- 5	--	--	--	--	--	--
08/29/73 0900	5001 5050	22.0C 195	6.1	7.6 8.8	--	3	--	--	--	-- 30 S	-- 4	--	--	--	--	--	--
09/26/73 0720	5001 5050	18 C 209	5.4	7.7 8.3	--	3	--	--	--	-- 29 S	-- 2	--	--	--	--	--	--
R9 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																	
10/18/72 1055	5001 5050	15 C 5050	9.6	7.6 7.4	--	3	--	--	--	-- 35 S	-- 5	--	--	--	--	--	--
10/18/72 1155	5050 5050	59.0F 145	9.3	7.3 7.0	--	1.5	--	--	--	--	--	0.000	--	--	--	--	--
11/15/72 1025	5050 5050	51.5F 170	9.5	7.3 6.7	--	1.5	--	--	--	--	--	0.000	--	--	--	--	--
12/20/72 1300	5050 5050	45.5 129	10.9	7.3 7.4	--	1.5	--	--	--	--	--	0.001	--	--	--	--	--
01/17/73 1250	5050 5050	50.0F 100	10.0	7.2 7.3	--	1.5	--	--	--	--	--	0.000	--	--	--	--	--
02/21/73 1200	5050 5050	49.5F 139	9.9	7.3 7.6	--	1.5	--	--	--	--	--	0.000	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET S		BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								O+G COLOR	ML/L MG/L								
		R9 D 820.7 132.7		SACRAMENTO RIVER AT GREENES LANDING										CONTINUED			
03/07/73 0840	5001 5050	10	C 10.9	7.4 7.5	--	3	--	--	--	50	5	15	--	--	--	--	--
03/21/73 1240	5050 5050	52.0F 150	9.8	7.3 7.5	--	15	--	--	--	--	--	0.000	--	--	--	--	
04/04/73 0750	5001 5050	12 C 182	10.7	7.5 7.4	--	3	--	--	--	1.3 R 22	5	4	--	--	--	--	
04/18/73 1350	5050 5050	59.0 155	9.5	7.3 7.7	--		--	--	--	--	--	0.000	--	--	--	--	
05/02/73 0615	5001 5050	17 C 170	8.8	6.9 7.6	--	3	--	--	--	1.2 R 28	5	8	--	--	--	--	
05/16/73 0730	5050 5050	70.2C 180	9.0	7.3 7.0	--	1.5	--	--	--	--	--	0.001	--	--	--	--	
06/06/73 0845	5001 5050	22 C 205	8.0	7.5 7.7	--	3	--	--	--	1.1 R 14	5	2	--	--	--	--	
06/20/73 1040	5050 5050	69.5F 135	8.2	7.3 8.3	--	1.5	--	--	--	--	--	0.001	--	--	--	--	
07/03/73 0830	5001 5050	22 C 160	8.3	7.6 8.2	--	3	--	--	--	1.0 R 13	5	5	--	--	--	--	
07/18/73 0900	5050 5050	21.0C 125	7.9	7.4	--	1.5	--	--	--	--	--	0.001	--	--	--	--	
08/01/73 0830	5001 5050	23 C 190	7.9	7.8 8.0	--	3	--	--	--	1.1 R 19	5	2	--	--	--	--	
08/15/73 1330	5050 5050	73 F 160	7.5	7.4 8.0	--	2	--	--	--	--	--	0.001	--	--	--	--	
08/29/73 0755	5001 5050	20.0C 197	7.6	7.8 8.8	--	3	--	--	--	1.2 R 22	5	3	--	--	--	--	
09/19/73 1215	5050 5050	69 F 150	8.8	7.5 7.8	--	2	--	--	--	--	--	0.000	--	--	--	--	
09/26/73 0630	5001 5050	16 C 165	7.8	7.9 8.3	--	3	--	--	--	1.7 R 16	5	1	--	--	--	--	
		G7 L 856.3 000.5		LAKE TAHOE AT TAHOE KEYS PIER (S-1)													
05/02/73 1130	5050 5050	10.5C 93	10.2	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
08/08/73 0940	5050 5050	67.4F 91	7.5	7.9	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 856.3 002.3		LAKE TAHOE AT CAMP RICHARDSON - EDWARDS PIER (S-6A)													
05/02/73 1215	5050 5050	9.0C 89	10.9	7.6	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
08/08/73 1030	5050 5050	67.0F 89	7.5	7.7	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 856.4 000.6		LAKE TAHOE NEAR TAHOE KEYS (L-1)													
05/02/73 1115	5050 5050	47.8F 86	10.5	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 857.0 958.0 2		LAKE TAHOE AT SURF AND SANDS PIER (S-10)													
05/02/73 1000	5050 5050	9.5C 89	10.5	7.7	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
08/08/73 0845	5050 5050	67.4F 89	7.2	7.8	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 857.6 957.1		LAKE TAHOE AT STATELINE - LAKESIDE MARINA PIER(S-13)													
05/02/73 0830	5050 5050	9.0C 92	10.5	7.7	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
08/08/73 0800	5050 5050	65.2F 90	7.1	7.6	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 900.0 000.0		LAKE TAHOE - SOUTH CENTER (C-1)													
05/02/73 1005	5050 5050	46.8F 86	10.4	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
08/08/73 0850	5050 5050	65.8F 90	7.1	7.8	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 900.4 956.9		LAKE TAHOE AT ZEPHYR COVE PIER (S-8)													
05/02/73 0945	5050 5050	8.5C 95	10.0	7.5	0.00 A	2	--	--	--	--	--	--	--	--	--	--	
08/08/73 1200	5050 5050	19.5C 94	7.4	7.6	0.00 A	1	--	--	--	--	--	--	--	--	--	--	
		G7 L 900.5 956.9		LAKE TAHOE AT ZEPHYR COVE (L-8)													
05/02/73 0935	5050 5050	46.5F 87	10.4	7.4	0.00 A	1	--	--	--	--	--	--	--	--	--	--	

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP FC	DO G.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET 5 ML/L HG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
G7 L 900.9 006.8 1 LAKE TAHOE AT RUBICON BAY (L-2)																	
05/02/73	5050	47.2F	10.5	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1200	5050	87			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 900.9 006.8 2 LAKE TAHOE AT RUBICON BAY PIER (S-2)																	
05/02/73	5050	8.5C	10.2	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1200	5050	98			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	67.5F	7.4	7.7		1	--	--	--	--	--	--	--	--	--	--	--
1125	5050	90			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 902.3 007.2 LAKE TAHOE AT MEEKS BAY RESORT PIER (S-12)																	
05/09/73	5050	7.0C	11.2	7.5		1	--	--	--	--	--	--	--	--	--	--	--
0850	5050	95			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	67.2F	7.5	7.7		1	--	--	--	--	--	--	--	--	--	--	--
1215	5050	89			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 905.3 956.4 LAKE TAHOE AT GLENBROOK BAY PIER (S-3)																	
05/09/73	5050	50.8F	10.3	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1305	5050	87			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	19.5C	7.3	7.7		1	--	--	--	--	--	--	--	--	--	--	--
1120	5050	96			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 907.8 009.2 LAKE TAHOE AT WARD CREEK PIER (S-11)																	
05/09/73	5050	7.5C	11.3	7.4		1	--	--	--	--	--	--	--	--	--	--	--
1025	5050	95			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	68.4F	7.7	7.8		1	--	--	--	--	--	--	--	--	--	--	--
1305	5050	90			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 908.7 000.3 LAKE TAHOE - NORTH CENTER (C-2)																	
05/02/73	5050	45.2F	10.3	7.4		1	--	--	--	--	--	--	--	--	--	--	--
0840	5050	87			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	66.4F	7.1	7.6		1	--	--	--	--	--	--	--	--	--	--	--
1005	5050	90			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 910.8 007.1 2 LAKE TAHOE AT US COAST GUARD PIER (S-5)																	
05/09/73	5050	48.8F	10.5	7.5		1	--	--	--	--	--	--	--	--	--	--	--
1155	5050				0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	19.0C	7.3	7.9		1	--	--	--	--	--	--	--	--	--	--	--
0720	5050	91			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 913.5 004.9 LAKE TAHOE AT CARNELIAN BAY - SIERRA BOAT CO (S-14)																	
08/08/73	5050	19.0C	7.3	7.8		1	--	--	--	--	--	--	--	--	--	--	--
0800	5050	91			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 914.2 002.2 LAKE TAHOE AT TAHOE VISTA (L-7)																	
05/02/73	5050	45.4F	10.5	7.5		1	--	--	--	--	--	--	--	--	--	--	--
0720	5050	85			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 914.2 002.3 LAKE TAHOE AT KINGS BEACH PIER (S-7)																	
05/02/73	5050	7.5C	10.0	7.5		2	--	--	--	--	--	--	--	--	--	--	--
0720	5050	92			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	19.0C	7.5	7.6		1	--	--	--	--	--	--	--	--	--	--	--
0850	5050	93			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 914.2 956.6 LAKE TAHOE AT KINGS CASTLE PIER (S-4)																	
05/02/73	5050	8.5C	10.1	7.5		2	--	--	--	--	--	--	--	--	--	--	--
0840	5050	95			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/08/73	5050	19.5C	7.2	7.7		1	--	--	--	--	--	--	--	--	--	--	--
0935	5050	91			0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 L 914.3 956.8 LAKE TAHOE AT INCLINE GUARD STATION (L-4)																	
05/02/73	5050	45.6F	10.6	7.4		1	--	--	--	--	--	--	--	--	--	--	--
0805	5050	82			0.01	A	--	--	--	--	--	--	--	--	--	--	--
G7 3020.01 BURTON CREEK IN STAR HARBOR (T-8)																	
05/09/73	5050	40.0F	11.3	7.2		1	--	--	--	--	--	--	--	--	--	--	--
1200	5050	42			0.01	A	--	--	--	--	--	--	--	--	--	--	--
08/01/73	5050	16.5C	7.9	7.3	1.5		--	--	--	--	--	--	--	--	--	--	--
1130	5050	96			0.01	A	--	--	--	--	--	--	--	--	--	--	--
G7 3050.01 WARD CREEK NEAR MOUTH (T-5)																	
05/09/73	5050	5.0C	11.7	7.2	20	E	1	--	--	--	--	--	--	--	--	--	--
1000	5050	44			0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/01/73	5050	20.5C	7.0	7.9	5.0		--	--	--	--	--	--	--	--	--	--	--
1150	5050	65	3.84		0.00	A	--	--	--	--	--	--	--	--	--	--	--
G7 3160.01 MADDEN CREEK NEAR MOUTH (T-10)																	
05/09/73	5050	39.2F	11.3	7.2	19	E	1	--	--	--	--	--	--	--	--	--	--
0955	5050	40	1.20		0.00	A	--	--	--	--	--	--	--	--	--	--	--
08/01/73	5050	14.8C	7.8	7.3	2.0		--	--	--	--	--	--	--	--	--	--	--
1110	5050	48	0.53		0.00	A	--	--	--	--	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBA5	DEPTH TURB	T+L CHLOR	SET 5		800 SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT	
								O+G COLOR	ML/L MG/L									
G7 3230.01		THIRD CREEK NEAR MOUTH (T-6)																
05/09/73 1200	5050 5050	9.5C 49	10.5	7.2	10 E 0.00 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 1030	5050 5050	15.0C 68	7.7	7.3	3.0 0.00 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3253.01		INCLINE CREEK AT INCLINE VILLAGE (T-2)																
05/09/73 1230	5050 5050	8.5C 56	10.6	7.2	10 E 0.01 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 1000	5050 5050	9.0C 72	8.2	7.3	3.0 0.01 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3300.01		GENERAL CREEK NEAR MEEKS BAY (T-3)																
05/09/73 0920	5050 5050	3.0C 16	12.5	6.8	15 E 0.00 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0950	5050 5050	14.0C 56	8.2 6.77	7.2	2.0 0.00 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3571.01		TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)																
05/09/73 0840	5050 5050	45.4F 24	10.3	7.1	120 E 0.00 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0840	5050 5050	18.0C 22	7.2	7.0	5.0 0.00 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3679.90		EDGEWOOD CREEK AT MOUTH (T-7A)																
05/09/73 0555	5050 5050	46.3F 93	10.1	7.6	8 E 0.02 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0700	5050 5050	6.5C 124	6.0	8.3	1.5 0.02 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3680.00		EDGEWOOD CREEK AT HIGHWAY 50 (T-7)																
05/09/73 0455	5050 5050	40.1F 93	10.8 0.97		8 E 0.00 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0746	5050 5050	9.5C 100	8.5	7.2	2.0 0.01 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3705.01		UPPER TRUCKEE RIVER NEAR MOUTH (T-1)																
05/09/73 0735	5050 5050	2.5C 30	12.1	6.8	40 E 0.01 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0750	5050 5050	14.5C 64	7.4 0.97	7.1	15.0 0.01 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
G7 3810.01		TROUT CREEK NEAR MOUTH (T-9)																
05/09/73 0740	5050 5050	37.6F 39	11.2 5.26	7.0	75 E 0.01 A	1	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	
08/01/73 0700	5050 5050	11.0C 42	8.3 1.42	7.1	30.0 0.01 A		-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	

TABLE D-6

NUTRIENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

5000	-	U. S. Geological Survey
5001	-	U. S. Bureau of Reclamation
5050	-	Department of Water Resources
5073	-	Department of Fish and Game

Abbreviations and Constituents

TIME	-	Pacific Standard Time on a 24-hour clock
G.H.	-	Instantaneous gage height in feet above an established datum
DISCH	-	Instantaneous discharge in cubic feet per second
TEMP	-	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
DEPTH	-	Depth in feet at which sample was collected
PH	-	Measure of acidity (<7) or alkalinity (>7) of water
EC	-	Electrical conductance in micromhos at 25° Celsius
TURB	-	Jackson Turbidity Units measured with a Hellige Turbidimeter (E) or a Hack Nephelometer (A)
F-CO2	-	Field determination of carbon dioxide in milligrams per liter
CACO3 P	-	Field Alkalinity (Phenol)
CACO3 T	-	Field Alkalinity (Total)
HC03	-	Bicarbonate in milligrams per liter
C03	-	Carbonate in milligrams per liter
NH3	-	Ammonia
NO2	-	Nitrite
NO3	-	Nitrate
F ORG N	-	Dissolved organic nitrogen
U ORG N	-	Organic nitrogen
F (NH3 +	-	Ammonia and dissolved organic nitrogen
U ORG N)	-	Ammonia and organic nitrogen
DIS	-	Dissolved acid hydrolyzable phosphate
A.H.P04	-	
F H3P04	-	Dissolved orthophosphate
U H3P04	-	Total orthophosphate
F TOT P	-	Dissolved total phosphorus
U TOT P	-	Total phosphorus

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	FIELD EC	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER							
						TURB F-CO2	CAC03 CAC03	P T	LAB CO3	NH3	N02 N03	F U	ORG ORG	N N	F U	(NH3 + ORG N)	DIS A.H.P04	F U
A0 V 836.3 128.4 NATOMAS EAST MAIN DRAIN AT SACRAMENTO																		
11/14/72	5050		52 F	6.8	135	25A					--	--	--				0.48	--
0800	5050	200 F		7.2	140						--	0.75	--	1.3	--		--	0.62
A0 V 836.4 131.4 NATOMAS MAIN DRAIN TO SACRAMENTO RIVER																		
11/14/72	5050		51.5F	7.2	620	40A					--	--	--				0.37	--
0845	5050	200 E		7.9	709						--	0.39	--	1.3	--		--	0.46
A0 V 847.4 135.8 R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL																		
11/14/72	5050		51 F	7.3	475	90A					--	--	--				0.36	--
0945	5050	200 E		7.6	557						--	0.57	--	1.7	--		--	0.68
A0 2112.00 SACRAMENTO RIVER AT ELKHORN FERRY																		
10/18/72	5050		58 F	7.3	110	4A					--	--	--				0.02	--
0845	5050				116						--	0.07	--	0.1	--		--	0.04
11/14/72	5050		51 F	7.4	153	20A					--	--	--				0.03	--
0915	5050			7.8	157						--	0.17	--	0.3	--		--	0.09
12/20/72	5050		46 F	7.3	98	125A					--	--	--				0.04	--
0915	5050				102						--	0.28	--	0.7	--		--	0.20
01/17/73	5050		50 F	7.1	83	85A					--	--	--				0.04	--
0945	5050				85						--	0.22	--	0.7	--		--	0.13
02/21/73	5050		49 F	7.3	135	24A					--	--	--				0.02	--
1000	5050				142						--	0.19	--	0.2	--		--	0.06
03/21/73	5050		49 F	7.3	170	13A					--	--	--				0.02	--
0915	5050				175						--	0.22	--	0.1	--		--	0.03
04/18/73	5050		57.0F	7.4	138	16A					--	--	--				0.02	--
1000	5050				150						--	0.13	--	0.2	--		--	0.06
05/16/73	5050		71.0F	7.5	167	15A					--	--	--				0.03	--
0915	5050				183						--	0.09	--	0.3	--		--	0.09
06/20/73	5050		72 F	7.7	158	8A					--	--	--				0.02	--
1230	5050				177						--	0.10	--	0.2	--		--	0.06
07/18/73	5050		71 F	7.7	130	13A					--	--	--				0.02	--
0750	5050				140						--	0.06	--	0.2	--		--	0.06
08/15/73	5050		72 F	7.6	160	6A					--	--	--				0.01	--
0715	5050				162						--	0.05	--	0.2	--		--	0.06
09/19/73	5050		65 F	7.4	130	7A					--	--	--				0.02	--
0715	5050				157						--	0.06	--	0.2	--		--	0.06
A0 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END																		
10/18/72	5050	18.13	60 F	7.5	184	10A		85			--	--	--				0.05	--
1130	5050			7.4	202			0			--	0.14	--	0.2	--		--	0.08
11/14/72	5050	20.70	52 F	7.4	230	30A		91			--	--	--				0.10	--
1200	5050			7.5	246			0			--	0.27	--	0.5	--		--	0.18
12/20/72	5050	28.75	44 F	7.3	115	100A		52			--	--	--				0.03	--
1145	5050			7.2	119			0			--	0.18	--	0.8	--		--	0.22
01/17/73	5050	36.00	48 F	7.3	150	95A		71			--	--	--				0.04	--
1100	5050			7.5	156			0			--	0.31	--	0.4	--		--	0.18
02/21/73	5050	34.05	49.6F	7.3	169	28A		85			--	--	--				0.02	--
1120	5050			7.6	179			0			--	0.26	--	0.2	--		--	0.11
03/21/73	5050	24.06	50.8F	7.5	218	14A		97			--	--	--				0.01	--
1000	5050			7.6	229			0			--	0.38	--	0.2	--		--	0.08
04/18/73	5050	19.41	58.2F	7.7	200	20A		92			--	--	--				0.03	--
1130	5050			7.6	219			0			--	0.26	--	0.3	--		--	0.12
05/16/73	5050	16.91	69.8F	7.3	180	18A		84			--	--	--				0.03	--
1100	5050			7.7	202			0			--	0.10	--	0.3	--		--	0.12
06/20/73	5050	15.37	68 F	7.6	170	13A		87			--	--	--				0.04	--
1000	5050			8.1	201			0			--	0.14	--	0.3	--		--	0.07
07/18/73	5050	16.86	69 F	7.6	165	15A		83			--	--	--				0.03	--
1030	5050			7.8	182			0			--	0.12	--	0.2	--		--	0.05
08/15/73	5050	17.11	70 F	7.6	195	12A		99			--	--	--				0.04	--
0915	5050			8.2	213			0			--	0.08	--	0.2	--		--	0.07
09/19/73	5050		65 F	7.7	170	18A		96			--	--	--				0.04	--
0915	5050			7.9	212			0			--	0.08	--	0.2	--		--	0.07
A0 2230.02 SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN																		
10/12/72	5050	20.11	15.5C	7.4	125	9AF					--	--	--				0.03	--
1215	5050										--	0.14	--	0.1	--		--	0.05
11/14/72	5050	23.12	10.0C	7.4		22AF		63			--	--	--				0.04	--
1205	5050				141			0			--	0.21	--	0.3	--		--	0.10
12/21/72	5050	31.95	8.0C	7.2	107	160AF		46			--	--	--				0.04	--
1245	5050				101			0			--	0.24	--	0.6	--		--	0.24
01/23/73	5050	37.57	7.0C	7.3	155	58AF					--	--	--				0.06	--
1340	5050	28000									--	0.19	--	0.3	--		--	0.18
02/22/73	5050	35.19	10.0C	7.4	162	32AF					--	--	--				0.03	--
1250	5050	25300									--	0.22	--	0.1	--		--	0.06
03/27/73	5050	26.19	14.0C	7.6	182	27AF					--	--	--				0.07	--
1315	5050										--	0.32	--	0.1	--		--	0.08
04/17/73	5050	22.06	16.0C	7.3	161	22AF					--	--	--				0.01	--
1300	5050										--	0.21	--	0.2	--		--	0.05

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER											
				LABORATORY PH	EC	TURB F-CO2	CAC03 CAC03	P T	HC03 CO3	NH3	N02 N03	F U	ORG N	F U	(NH3 N)	OIS A.H.P04	F U	H3P04 H3P04	F U	TOT TOT	P P	
A0 2230.02		SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN										CONTINUED										
05/09/73	5050	17.62	18.8C	7.4	148	10AF															0.02	--
1345	5050										--	0.12	--	0.2	--						--	0.05
06/26/73	5050	17.96	21.5C	7.8	148	9AF															0.02	--
1255	5050										--	0.12	--	0.2	--						--	0.04
07/25/73	5050	19.27	20.5C	7.7																	0.02	--
1225	5050										--	0.08	--	0.2	--						--	0.05
08/14/73	5050	18.67	21.5C	7.7	169	9AF															0.05	--
1200	5050										--	0.06	--	0.2	--						--	0.05
09/26/73	5050	20.59	18.0C	7.6	125	7AF															0.01	--
1240	5050										--	0.10	--	0.2	--						--	0.05
A0 2905.00		YOLO BYPASS BELOW SACRAMENTO BYPASS																				
11/14/72	5050		53 F	8.2	600	50A															0.02	--
1340	5050			7.8	648						--	0.02	--	0.8	--						--	0.14
A0 2925.00		SACRAMENTO SLOUGH AT SACRAMENTO RIVER																				
10/18/72	5050		17.0C	7.4	527	23AF															0.08	--
1131	5050										--	0.28	--	0.5	--						--	0.18
04/17/73	5050	17.78	17.0C	7.7																	0.07	--
1225	5050										--	0.21	--	0.5	--						--	0.13
05/09/73	5050		21.0C	7.4	431	30AF															0.10	--
1315	5050										--	0.15	--	0.6	--						--	0.21
06/26/73	5050		26.0C	7.6	467	20AF															0.10	--
1225	5050										--	0.25	--	0.6	--						--	0.16
07/25/73	5050		25.0C	7.5	474	24AF															0.10	--
1145	5050										--	0.13	--	0.5	--						--	0.13
08/14/73	5050		23.5C	7.6	494	25AF															0.11	--
1120	5050										--	0.11	--	0.4	--						--	0.16
09/26/73	5050		19.0C	7.8	510	21AF															0.13	--
1205	5050										--	0.14	--	0.5	--						--	0.23
A0 2933.00		R-D 108 DRAINAGE TO SACRAMENTO RIVER																				
01/23/73	5050		8.0C	7.2																	0.23	--
1435	5050										--	1.5	--	2.2	--						--	0.48
02/22/73	5050		14.0C	7.8	1260	40AF															0.28	--
1410	5050	0									--	0.80	--	0.5	--						--	0.28
03/27/73	5050		16.0C	8.0																	0.33	--
1435	5050										--	0.63	--	0.6	--						--	0.34
04/17/73	5050		17.0C	8.1																	0.28	--
1410	5050										--	0.36	--	0.4	--						--	0.36
05/09/73	5050		22.0C	7.4	463	52AF															0.15	--
1455	5050	6.0									--	0.18	--	0.9	--						--	0.20
06/26/73	5050		27.0C	7.4																	0.18	--
1415	5050	6									--	0.13	--	0.9	--						--	0.23
07/25/73	5050		26.0C	7.4	579	21AF															0.13	--
1345	5050	6.0									--	0.14	--	0.6	--						--	0.13
08/14/73	5050		24.0C	7.4	572	18AF															0.11	--
1325	5050	6									--	0.09	--	0.4	--						--	0.14
09/26/73	5050		16.5C	8.0	952	38AF															0.24	--
1350	5050	0									--	0.15	--	0.6	--						--	0.32
A0 2947.10		COLUSA BASIN DRAIN NEAR KNIGHTS LANDING																				
10/18/72	5050	24.52	17.5C	7.8	737	33AF															0.14	--
1301	5050										--	0.22	--	0.7	--						--	0.20
01/23/73	5050		7.5C	7.9																	0.11	--
1420	5050										--	0.42	--	1.4	--						--	0.37
02/22/73	5050		12.0C	7.6	494																0.10	--
1345	5050	4940									--	0.46	--	0.8	--						--	0.19
03/27/73	5050	26.52	15.0C	8.1																	0.08	--
1350	5050										--	0.49	--	0.7	--						--	0.16
04/17/73	5050	24.54	17.0C	8.2	690	85AF															0.10	--
1330	5050										--	0.29	--	0.1	--						--	0.21
05/09/73	5050	24.52	24.0C	8.0																	0.08	--
1415	5050										--	0.23	--	1.2	--						--	0.22
06/26/73	5050	24.52	27.5C	8.0	650	56AF															0.09	--
1345	5050										--	0.28	--	1.0	--						--	0.21
07/25/73	5050	24.52	26.0C	7.8	583	45AF															0.06	--
1305	5050										--	0.23	--	0.8	--						--	0.14
08/14/73	5050	24.49	26.0C	7.8	591	58AF															0.06	--
1300	5050										--	0.17	--	0.7	--						--	0.16
09/26/73	5050	24.03	19.0C	7.8	566	37AF															0.06	--
1315	5050										--	0.43	--	0.6	--						--	0.16

TABLE D-6 (CONTINUED)

NUTRIENT ANALYSIS OF SURFACE WATER																	
DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		FIELD LAB					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
				LABORATORY PH	EC	TURB F-CO2	CACO3 CACO3	P T	HCO3 CO3	NH3	NO2 NO3	F ORG U ORG	N N	F (NH3 + U ORG N)	DIS A.H.PO4	F H3PO4 U H3PO4	F TOT P U TOT P
A0 2950.00		R-D 787 DRAINAGE TO COLUSA BASIN DRAIN															
01/23/73	5050		9.0C	7.3	624	88AF										0.17	--
1400	5050	0														--	0.35
02/22/73	5050	19.5	14.0C	7.4												0.08	--
1325	5050															--	0.12
03/27/73	5050	19.3	16.0C	8.0												0.07	--
1335	5050															--	0.17
04/17/73	5050	20.0	19.0C	8.0												0.08	--
1315	5050															--	0.18
05/09/73	5050	20.3	21.0C	8.0	486	22AF										0.12	--
1400	5050															--	0.16
06/26/73	5050	21.1	29.0C	8.2												0.57	--
1310	5050															--	0.89
07/25/73	5050	20.6	28.0C	8.2												0.55	--
1255	5050															--	0.74
08/14/73	5050	20.9	26.0C	8.2	1062	13AF										0.74	--
1230	5050															--	0.77
09/26/73	5050	19.1	17.0C	7.8	760	51AF										0.14	--
1300	5050															--	0.34
A0 2955.00		R-D 787 DRAINAGE TO SACRAMENTO RIVER															
10/18/72	5050	19.1	18.5C	8.0	935	33AF										0.28	--
1346	5050															--	0.36
01/23/73	5050		11.0C	7.5												0.26	--
1435	5050															--	0.35
02/22/73	5050	18.3	16.0C	7.6	860	65AF										0.19	--
1430	5050	0														--	0.22
03/27/73	5050	19.3	19.0C	7.8												0.24	--
1500	5050															--	0.24
04/17/73	5050	20.3	20.0C	7.9												0.17	--
1430	5050															--	0.23
05/09/73	5050	20.2	22.5C	7.3	500	35AF										0.19	--
1515	5050	0														--	0.23
06/26/73	5050	20.4	27.0C	7.2												0.22	--
1435	5050															--	0.27
07/25/73	5050	19.6	26.0C	7.3	558	20AF										0.13	--
1410	5050															--	0.15
08/14/73	5050	19.6	24.0C	7.3	596	17AF										0.16	--
1350	5050															--	0.22
09/26/73	5050	18.9	20.0C	8.0	1130	22AF										0.27	--
1415	5050															--	0.45
A0 2965.00		R-D 70 DRAINAGE TO SACRAMENTO RIVER															
01/23/73	5050		10.0C	7.5	810	39AF										0.23	--
1235	5050															--	0.29
02/22/73	5050	33.2	13.5C	7.8												0.17	--
1115	5050															--	0.25
03/27/73	5050	33.4	16.0C	8.0												0.12	--
1205	5050															--	0.21
04/17/73	5050	33.4	17.0C	8.1												0.08	--
1100	5050															--	0.16
05/09/73	5050	33.8	24.0C	7.6	611	42AF										0.16	--
1200	5050															--	0.24
06/26/73	5050	34.0	27.0C	7.5												0.13	--
1100	5050															--	0.20
07/25/73	5050	33.2	26.0C	7.4												0.12	--
1100	5050															--	0.20
08/14/73	5050	33.8	23.0C	7.4	577	19AF										0.15	--
1030	5050															--	0.21
09/26/73	5050	33.7	19.0C	7.9	533	20AF										0.14	--
1120	5050															--	0.21
A0 2972.00		BUTTE SLOUGH NEAR MERIDIAN															
01/23/73	5050	54.91	9.0C	7.3												0.04	--
1200	5050															--	0.12
02/22/73	5050	48.88	12.0C	7.2												0.07	--
1045	5050															--	0.12
03/27/73	5050	46.46	14.0C	7.8												0.03	--
1145	5050															--	0.08
04/17/73	5050		17.0C	7.4												0.04	--
1030	5050															--	0.08
05/09/73	5050		22.0C	7.4												0.06	--
1130	5050															--	0.10
06/26/73	5050	42.32	27.5C	8.0												0.07	--
1035	5050															--	0.13
08/14/73	5050	41.77	24.0C	7.6	344	16AF										0.05	--
1000	5050															--	0.10

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				
					FIELD EC	FIELD TURB	FIELD CACO3 P	FIELD CACO3 T	FIELD HCO3 CO3	NO2 NO3	F ORG N U ORG N	N U	F (NH3 + U ORG N)	DIS A.H.P04
		A0 2972.00	BUTTE SLOUGH NEAR MERIDIAN					CONTINUED						
09/26/73	5050	41.57	19.0C	7.4	319	10AF	--	--	--	--	--	0.06	--	
1050	5050						--	0.04	--	0.3	--	--	0.13	
		A0 3320.00	ELDER CREEK AT GERBER											
01/19/73	5050				225		--	--	--	--	--	0.03	--	
1650	5050	300 E					--	0.22	--	0.3	--	--	0.15	
		A0 5103.00	FEATHER RIVER AT NICOLAUS											
10/18/72	5050	24.63	58 F	7.3	85	3A	--	--	--	--	--	0.00	--	
0930	5050				86		--	0.04	--	0.1	--	--	0.03	
11/14/72	5050	24.45	51 F	7.2	95	5A	--	--	--	--	--	0.01	--	
1030	5050			7.6	94		--	0.04	--	0.2	--	--	0.03	
12/20/72	5050	20.48	49 F	7.1	100	24A	--	--	--	--	--	0.06	--	
0950	5050				101		--	0.26	--	1.0	--	--	0.26	
01/17/73	5050	42.30	48 F	7.0	70	75A	--	--	--	--	--	0.02	--	
0910	5050				69		--	0.22	--	0.5	--	--	0.09	
02/21/73	5050	34.06	49 F	7.1	92	14A	--	--	--	--	--	0.01	--	
0930	5050				93		--	0.11	--	0.2	--	--	0.04	
03/21/73	5050	26.44	48 F	7.3	95	7A	--	--	--	--	--	0.01	--	
0830	5050				98		--	0.09	--	0.0	--	--	0.02	
04/18/73	5050	24.51	56.0F	7.3	89	12A	--	--	--	--	--	0.01	--	
0915	5050				94		--	0.02	--	0.2	--	--	0.03	
05/16/73	5050	22.56	71.0F	7.5	100	4A	--	--	--	--	--	0.00	--	
0830	5050				105		--	0.07	--	0.2	--	--	0.03	
06/20/73	5050	22.31	79 F	7.6	81	4A	--	--	--	--	--	0.00	--	
1145	5050				87		--	0.04	--	0.2	--	--	0.02	
07/18/73	5050	23.33	71 F	7.4	79	7A	--	--	--	--	--	0.01	--	
0850	5050				79		--	0.03	--	0.3	--	--	0.03	
08/15/73	5050	24.22	70 F	7.4	81	2A	--	--	--	--	--	0.02	--	
0800	5050						--	0.02	--	0.1	--	--	0.03	
09/19/73	5050	24.21	64 F	7.3	73	3A	--	--	--	--	--	0.01	--	
0800	5050				83		--	0.03	--	0.5	--	--	0.02	
		A1 1020.00	PIT RIVER NEAR MONTGOMERY CREEK											
03/14/73	5050		8.0C	7.1			--	--	--	--	--	0.03	--	
1040	5050						--	0.09	--	0.1	--	--	0.04	
		A1 1680.00	PIT RIVER NEAR CANBY											
03/14/73	5050		4.0C	7.5			--	--	--	--	--	0.07	--	
1305	5050						--	0.11	--	0.6	--	--	0.14	
		A2 1010.00	SACRAMENTO RIVER AT KESWICK											
10/16/72	5050		11.0C	7.2	101	3AF	--	--	--	--	--	0.01	--	
1001	5050	6000					--	0.25	--	0.0	--	--	0.02	
12/13/72	5050		10.0C	7.1	122		--	--	--	--	--	0.02	--	
1216	5050	7500					--	0.08	--	0.1	--	--	0.03	
01/05/73	5050		8.0C	7.2	127	2AF	--	--	--	--	--	0.02	--	
1245	5050	12000					--	0.12	--	0.1	--	--	0.02	
02/02/73	5050		7.0C	7.2	119	5AF	--	--	--	--	--	0.02	--	
1115	5050	14000					--	0.08	--	0.1	--	--	0.03	
03/23/73	5050		7.5C	7.0	87		--	--	--	--	--	0.00	--	
1215	5050	5000					--	0.06	--	0.0	--	--	0.01	
04/10/73	5050		8.0C	7.1	109	3AF	--	--	--	--	--	0.00	--	
1105	5050	6000					--	0.06	--	0.1	--	--	0.01	
05/18/73	5050		9.5C	7.1	100	2AF	--	--	--	--	--	0.01	--	
1045	5050	10500					--	0.06	--	0.1	--	--	0.03	
06/14/73	5050		10.0C	7.9	106	2AF	--	--	--	--	--	0.01	--	
1505	5050	10500					--	0.07	--	0.1	--	--	0.02	
07/17/73	5050		10.0C	7.3	229		--	--	--	--	--	0.01	--	
1300	5050	12500					--	0.07	--	0.1	--	--	0.03	
08/07/73	5050		10.2C	7.2	105	2AF	--	--	--	--	--	0.02	--	
0915	5050	11000					--	0.10	--	0.0	--	--	0.02	
09/20/73	5050		10.0C	7.2	103	2AF	--	--	--	--	--	0.00	--	
1110	5050	8800					--	0.06	--	0.1	--	--	0.03	
		A2 1300.00	SACRAMENTO RIVER AT DELTA											
03/13/73	5050		6.0C	7.3			--	--	--	--	--	0.01	--	
1100	5050						--	0.02	--	0.0	--	--	0.01	
		A2 2150.00	MCCLLOUD RIVFR ABOVE SHASTA LAKE											
03/13/73	5050		7.0C	7.4			--	--	--	--	--	0.01	--	
1000	5050						--	0.01	--	0.0	--	--	0.01	
		A3 1110.00	STONY CREEK BELOW BLACK BUTTE DAM											
01/04/73	5050	4.56	6.0C	7.7	327		--	--	--	--	--	0.02	--	
1145	5050						--	0.28	--	--	--	--	--	

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	TURB EC	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
						FIELD CACO3 P	FIELD CACO3 T	LAB HC03 CO3	NH3	N02 N03	F ORG N U ORG N	F (NH3 + U ORG N)	OIS A.H.P04	F H3P04 U H3P04	F TOT P U TOT P	
A3		1250.00	STONY CREEK NEAR FRUTO													
06/15/73	5050		18.0C	8.2	318	18A									0.01	--
1040	5050								--	0.13	--	--	--	--	--	--
07/16/73	5050		22.5C	8.2		39A									0.00	--
0930	5050								--	0.02	--	--	--	--	--	--
A3		1302.00	GRINDSTONE CREEK NEAR FLK CREEK													
05/08/73	5050		13.0C	7.6	190	2A									0.01	--
0930	5050								--	0.06	--	--	--	--	--	--
09/17/73	5050		23.0C	8.1	421										0.00	--
1000	5050	6 F							--	0.02	--	--	--	--	--	--
A3		2120.00	THOMES CREEK AT PASKENTA													
02/01/73	5050	4.82	4.0C	7.7	216										0.02	--
0930	5050								--	0.10	--	--	--	--	--	--
A5 L		010.7 105.1	LAKF ALMANOR AT INTAKE TOWER NEAR DAM													
10/25/72	5050	90.1	55.1F	7.3	100										0.00	--
0945	5050		1						0.03	0.00	0.2	0.23	--	--	--	0.04
10/25/72	5050	90.1	52.4F	7.3	100			59							0.00	--
1000	5050		45	7.2	100			0	0.03	0.00	0.2	0.23	--	--	--	0.00
10/25/72	5050	90.1	52.1F	6.9											0.00	--
1015	5050		80						0.89	0.00	0.3	1.19	--	--	--	0.08
03/07/73	5050		2.1C												0.00	--
1000	5050		10		100				0.01	0.03	0.2	0.21	--	--	--	0.00
03/07/73	5050		3.6C												0.00	--
1015	5050		75		119				0.64	0.01	0.2	0.84	--	--	--	0.04
04/17/73	5050		46.5F	7.4	94	6A		59							0.00	--
1220	5050		7	7.4	98			0	0.05	0.04	0.1	0.15	--	--	--	0.01
04/17/73	5050		41.9F	7.2	94	8A		59							0.01	--
1230	5050		42	7.4	106			0	0.09	0.04	0.1	0.19	--	--	--	0.01
A5 L		013.2 109.8	LAKE ALMANOR, WEST ARM, NEAR INTAKE TOWER													
03/07/73	5050		1.4C												0.00	--
1200	5050		7		99				0.00	0.00	0.2	0.2	--	--	--	0.00
03/07/73	5050		3.2C												0.01	--
1215	5050		28		114				0.14	0.03	0.1	0.24	--	--	--	0.01
A5 L		014.3 106.5	LAKE ALMANOR, EAST ARM, CENTER													
04/17/73	5050		44.4F	7.3	94	6A		60							0.00	--
1400	5050		COM		98			0	0.05	0.04	0.2	0.25	--	--	--	0.00
04/17/73	5050		44.2F		94	6A		59							0.00	--
1415	5050		25	7.5				0	0.07	0.04	0.2	0.27	--	--	--	0.01
04/17/73	5050		42.5F		94	6A		59							0.01	--
1420	5050		44	7.3	99			0	0.07	0.05	0.1	0.17	--	--	--	0.01
05/22/73	5073		COM	7.4	95	0A		57							0.00	--
1400	5050							0	0.00	0.04	0.2	0.2	--	--	--	0.00
A5 L		014.9 106.4	LAKE ALMANOR, EAST ARM, NEAR PRATTVILLE													
10/25/72	5050	90.1	55.5F	7.3	105	2A		59							0.01	--
0850	5050		25	7.4	96			0	0.01	0.02	0.2	0.21	--	--	--	0.02
10/25/72	5050	90.1	55.1F	7.3	105										0.00	--
0900	5050		50						0.02	0.00	0.2	0.22	--	--	--	0.03
A5 L		015.5 111.1	LAKF ALMANOR, WEST ARM, CENTER													
04/17/73	5050		41.2F	7.3	89	5A		55							0.00	--
1000	5050		COM	7.3	94			0	0.02	0.02	0.2	0.22	--	--	--	0.01
04/17/73	5050		41.0F	7.3	89	4A		54							0.01	--
1010	5050		18	7.5	93			0	--	--	--	--	--	--	--	0.01
04/17/73	5050		41.0F	7.3	90	5A		55							0.01	--
1020	5050		28	7.4	93			0	0.02	0.02	0.1	0.12	--	--	--	0.01
05/22/73	5073		51.1F	7.3	95	0A		58							0.00	--
1015	5050		36	7.6				0	0.01	0.03	0.2	0.21	--	--	--	0.00
05/22/73	5073		COM	7.4	92	0A		55							0.00	--
1100	5050							0	0.01	0.03	0.2	0.21	--	--	--	0.00
A5 L		015.9 111.3	LAKF ALMANOR, UPPER WEST ARM, NEAR CHESTER													
10/25/72	5050	90.1	55.1F	7.5	105	1A		60							0.00	--
1340	5050		1	7.2	97			0	0.00	0.00	0.2	0.2	--	--	--	0.00
10/25/72	5050	90.1	53.6F	7.5											0.00	--
1350	5050		30						0.00	0.00	0.3	0.3	--	--	--	0.02
A5 L		017.0 112.2	LAKE ALMANOR, WEST ARM, WEST SHORE													
10/25/72	5050	90.1	51.8F	7.3	100										0.01	--
1311	5050		2						0.00	0.00	0.3	0.3	--	--	--	0.03
A5 L		017.3 111.6	LAKE ALMANOR IN NORTH FORK FEATHER RIVER ARM													
10/25/72	5050	90.1	52.0F	7.3	105	2A		60							0.01	--
1240	5050		6	7.3	98			0	0.00	0.08	0.2	0.2	--	--	--	0.02

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		FIELD		LAB	NUTRIENT ANALYSIS OF SURFACE WATER														
				LABORATORY PH	EC	TURB F-CO2	CACO3 T		CACO3 P	HCO3 CO3	NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER							
										N02	F ORG N	N	F (NH3 U ORG N)	OIS	F H3PO4	F TOT P	N03	U ORG N	N	F (NH3 U ORG N)	A.H.P04	U H3PO4	U TOT P
AS L 017.6 110.0 LAKE ALMANOR NEAR GOULD SWAMP																							
10/25/72	5050	90.1	53.8F	7.5	105	2A		56		--	--	--	--	--	0.01	--	0.00	0.2	0.21	--	--	0.02	
1155	5050		6	5.8	101			0	0.01														
AS 3672.20 ROCK CREEK AT HIGHWAY 36																							
05/22/73	5050		50.0F	7.1	51	0A				--	--	--	--	0.00	--	--	0.00	0.1	0.1	--	--	0.00	
1100	5050		50 F						0.00													0.00	
AS 3677.10 RORRERS CREEK AT HIGHWAY 36																							
05/22/73	5050		59.0F	7.1	46	0A				--	--	--	--	0.00	--	--	0.00	0.1	0.1	--	--	0.00	
1200	5050		30 F						0.00													0.00	
AS 3691.10 BAILEY CREEK AT HIGHWAY 36																							
05/22/73	5050		46.0F	7.1	22	1A				--	--	--	--	0.00	--	--	0.00	0.1	0.11	--	--	0.01	
1000	5050		75 F						0.01													0.01	
AS 3693.51 FEATHER RIVER, NORTH FORK, AT CHESTER																							
05/22/73	5050		46.0F	7.1	47	2A				--	--	--	--	0.01	--	--	0.01	0.1	0.1	--	--	0.02	
0830	5050		100 E						0.00													0.02	
A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY																							
12/04/72	5050	6.23	45 F	7.3	150	5A		77		--	--	--	--	0.02	--	--	0.02	0.1	0.1	--	--	0.02	
1300	5050			7.7	155			0	--													0.04	
03/13/73	5050	6.52	50 F	7.3	122	3A		67		--	--	--	--	0.00	--	--	0.00	0.1	0.1	--	--	0.01	
1415	5050			7.9	131			0	--													0.01	
06/12/73	5050		68 F	7.6	109	1A		61		--	--	--	--	0.03	--	--	0.03	0.2	0.2	--	--	0.05	
1200	5050			7.8	120			0	--													0.05	
09/11/73	5050		66 F	7.4	76	1A		44		--	--	--	--	0.03	--	--	0.03	0.1	0.1	--	--	0.06	
1330	5050			7.5	91			0	--													0.06	
A8 L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT																							
09/14/73	5050		22.0C	8.2	261					--	--	--	--	0.15	--	--	0.15			--	--	--	
1045	5050								--													--	
A8 1250.00 BEAR CREEK NEAR RUMSEY																							
11/16/72	5050	2.73	9.0C	8.4	593					--	--	--	--	0.02	--	--	0.02			--	--	--	
1330	5050								--													--	
01/19/73	5050	3.94	6.0C	8.1	645					--	--	--	--	0.03	--	--	0.03			--	--	--	
1350	5050								--													--	
02/08/73	5050	3.82	10.0C	8.0	630					--	--	--	--	0.03	--	--	0.03			--	--	--	
1215	5050								--													--	
03/08/73	5050	3.14	12.5C	8.2	829					--	--	--	--	0.02	--	--	0.02			--	--	--	
1345	5050								--													--	
09/14/73	5050	1.02	25.0C	8.2	5080					--	--	--	--	0.01	--	--	0.01			--	--	--	
1325	5050								--													--	
A8 1350.00 CACHE CREEK NEAR LOWER LAKE																							
12/07/72	5050	0.15	6.0C	7.6	280					--	--	--	--	0.01	--	--	0.01	0.8	0.8	--	--	0.06	
1126	5050								--													0.06	
01/19/73	5050	5.05	6.5C		160	475AF				--	--	--	--	0.05	--	--	0.05	1.3	1.3	--	--	0.45	
1220	5050	1260							--													0.45	
02/08/73	5050	6.27	7.0C	7.4	265	29AF				--	--	--	--	0.02	--	--	0.02	0.9	0.9	--	--	0.08	
1030	5050	2700							--													0.08	
04/05/73	5050	2.16	12.0C	8.0	286	15AF				--	--	--	--	0.00	--	--	0.00	0.9	0.9	--	--	0.06	
1030	5050	148							--													0.06	
05/25/73	5050	3.55		7.4	269	14AF				--	--	--	--	0.04	--	--	0.04	1.2	1.2	--	--	0.17	
0840	5050	480							--													0.17	
06/22/73	5050	3.69	24.0C	8.0	262	24AF				--	--	--	--	0.04	--	--	0.04	1.7	1.7	--	--	0.17	
0855	5050								--													0.17	
07/12/73	5050	3.80	26.0C	7.9	276	10AF				--	--	--	--	0.02	--	--	0.02	1.5	1.5	--	--	0.08	
1135	5050								--													0.08	
08/09/73	5050	3.50	26.0C	8.2	260	10AF				--	--	--	--	0.00	--	--	0.00	1.0	1.0	--	--	0.14	
0810	5050	465							--													0.14	
09/14/73	5050	2.84	22.0C	7.7	270	2AF				--	--	--	--	0.01	--	--	0.01	0.7	0.7	--	--	0.08	
1145	5050								--													0.08	
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																							
10/19/72	5050	10.98	16.5C	7.4	325	20C		129		--	--	--	--	--	--	--	--	--	--	--	--	--	
0700	5000			6.9	662			0		--	--	--	--	--	--	--	--	--	--	--	--	0.26	
11/15/72	5050	11.52	12 C	7.4	550	50C		146		--	--	--	--	--	--	--	--	--	--	--	--	--	
0830	5000			6.6	595			0		--	--	--	--	--	--	--	--	--	--	--	--	0.58	
11/20/72	5001		12 C	7.9		38AF				--	--	--	--	--	--	--	--	--	--	--	--	--	
1300	5001		3		701				0.33					0.25			0.25	1.20	1.53	--	--	0.44	
12/14/72	5050		5.0C	7.4	440	7C		118		--	--	--	--	--	--	--	--	--	--	--	--	--	
0830	5000			7.3	702			0		--	--	--	--	--	--	--	--	--	--	--	--	0.20	
12/18/72	5001		8 C	7.2		10AF				--	--	--	--	--	--	--	--	--	--	--	--	--	
1515	5001		3		791				0.28					0.14			0.14	0.70	0.98	--	--	0.25	
01/22/73	5001		8 C	7.2		80AF		95		--	--	--	--	--	--	--	--	0.900	--	--	--	--	
1430	5001		3	7.6	505			0	0.18					0.13			0.13	1.10	1.28	--	--	0.26	
01/24/73	5050		8 C	7.4	420	40C		114		--	--	--	--	--	--	--	--	--	--	--	--	--	
1035	5000			7.5	644			0	--					--	--	--	--	--	--	--	--	0.30	

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	LABORATORY PH	FIELD EC	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
						TURB F-CO2	CAC03 CAC03	P T	LAB CO3	NH3	NO2 NO3	F ORG N U ORG N	F (NH3 U ORG N)	DIS A.H.P04	F H3PO4 U H3PO4	F TOT P U TOT P	
B0 7020.00		SAN JOAQUIN RIVER NEAR VERNALIS					CONTINUED										
02/20/73 1425	5001 5001		13 3	C 7.3	7.3 474	37AF					0.09	0.81	0.600 0.90	-- 0.99	--	0.15 --	-- 0.33
02/23/73 0750	5050 5000	18.96	12	C 7.4 7.6	800 492	30C		87	106 0	--	--	--	--	--	--	--	0.27
03/06/73 1605	5001 5001		12	C 7.5 7.9	788	29AF			132 0	0.12	1.00	0.400 --	--	--	--	0.15 --	-- 0.25
04/03/73 1455	5001 5001		14 3	C 7.8 7.8	542 462	21AF			96 0	0.04	0.67	--	0.20 --	--	--	0.08 --	-- 0.13
04/18/73 0915	5050 5000	13.72	15.0C	7.4 7.5	500 666	30C		96	117 0	--	--	--	--	--	--	--	0.27
05/01/73 1400	5001 5001		19 3	C 7.3 7.7	690 625	17AF			98 0	0.01	0.76	--	0.20 --	--	--	0.08 --	-- 0.21
05/17/73 0730	5050 5000	11.82	23	C 7.6 6.9	700 717	30C		114	139 0	--	--	--	--	--	--	--	0.19
06/05/73 1730	5001 5001		22 3	C 8.6 7.8	350 348	17AF			66 0	0.02	0.14	--	0.10 --	--	--	0.04 --	-- 0.13
06/15/73 0700	5050 5000	11.84	18.0C	7.6 8.0	450 566	30C		88	107 0	--	--	--	--	--	--	--	0.20
06/26/73 1030	5000 5000		25.0C	8.3 7.8	773 799	40C		130	158 0	--	--	--	--	--	--	--	0.32
07/02/73 1800	5001 5001		25 3	C 8.4 8.3	890 850	50AF			154 0	0.06	0.77	--	0.50 --	--	--	0.07 --	-- 0.29
07/19/73 0715	5050 5000	9.78	21	C 8.1 7.5	900 992	40C		151	184 0	--	--	--	--	--	--	--	0.18
07/25/73 1030	5000 5000		24.0C	8.3 7.9	836	60C		131	160 0	--	--	--	1.3 --	--	--	--	0.34
07/31/73 1600	5001 5001		27 3	C 8.9 8.0	1000 893	49AF			157 0	0.04	0.76	--	0.50 --	--	--	0.09 --	-- 0.35
08/16/73 0830	5050 5000	10.06	25.0C	7.7 8.1	820 902	40C		143	174 0	--	--	--	--	1.3 --	--	--	0.35
08/28/73 1525	5001 5001		24.0C 3	8.4 8.7	865 806	38AF			133 14	0.03	1.38	--	0.50 --	--	--	0.04 --	-- 0.30
09/25/73 1350	5001 5001		19 3	C 8.1 8.0	745 716	21AF			153 0	0.45	1.50	--	0.90 --	--	--	0.12 --	-- 0.29
B9 D 747.2 118.4		SAN JOAQUIN RIVER AT MOSSDALE BRIDGE															
09/13/73 1005	5050 5001		22 3	C 7.5	750	15AF				0.21	1.44	0.49 0.99	0.70 1.20	--	--	0.11 --	-- 0.25
09/21/73 0730	5050 5001		21.0C 3	7.5	750	15AF				0.14	1.40	0.46 1.16	0.60 1.30	--	--	0.10 --	-- 0.27
B9 D 748.0 125.2		SUGAR CUT AT MOUTH															
09/13/73 0847	5050 5001		22 3	C 7.5	800	18AF				0.03	1.38	0.47 1.09	0.50 1.12	--	--	0.09 --	-- 0.25
09/21/73 0630	5050 5001		21 3	C 7.5	775	12AF				0.08	1.30	0.42 1.04	0.50 1.12	--	--	0.08 --	-- 0.24
B9 D 748.3 126.9		OLD RIVER AT TRACY ROAD BRIDGE															
10/16/72 1510	5001 5001		17 3	C 7.6 7.6	672	12AF			134 0	0.33	0.82	--	0.70 1.03	--	--	0.10 --	-- 0.22
11/20/72 1140	5001 5001		12 3	C 7.8	741	30AF				0.58	1.00	--	1.30 1.88	--	--	0.34 --	-- 0.50
12/18/72 1430	5001 5001		6 3	C 7.2	839	10AF				0.46	0.85	--	0.80 1.26	--	--	0.13 --	-- 0.25
01/22/73 1330	5001 5001		9 3	C 7.1 7.5	605	40AF			106 0	0.34	1.02	1.00 1.20	-- 1.54	--	--	0.20 --	-- 0.27
02/20/73 1340	5001 5001		13 2	C 7.3	493	50AF				0.14	0.81	0.60 1.00	-- 1.14	--	--	0.15 --	-- 0.34
03/06/73 1330	5001 5001		12 3	C 7.5 7.6	743	27AF			120 0	0.15	0.95	0.40 --	--	--	--	0.15 --	-- 0.25
04/03/73 1235	5001 5001		13 3	C 7.6 7.7	610 521	20AF			102 0	0.04	0.72	--	0.30 --	--	--	0.09 --	-- 0.14
05/01/73 1055	5001 5001		19 3	C 7.5 7.8	820 800	25AF			119 0	0.03	0.51	--	0.30 --	--	--	0.08 --	-- 0.24
06/05/73 1515	5001 5001		23 3	C 9.0 7.9	420 426	30AF			80 0	0.03	0.06	--	0.20 --	--	--	0.05 --	-- 0.20
07/02/73 1510	5001 5001		25 3	C 8.6 8.3	970 955	28AF			163 0	0.08	0.11	--	0.60 --	--	--	0.06 --	-- 0.32
07/31/73 1340	5001 5001		27 3	C 8.5 8.0	780 1050	19AF			172 0	0.11	0.44	--	0.60 --	--	--	0.14 --	-- 0.32
08/28/73 1305	5001 5001		23 3	C 8.3 8.1	1100 1040	33AF			185 0	0.15	0.94	--	0.60 --	--	--	0.09 --	-- 0.33
09/25/73 1030	5001 5001		19 3	C 8.1 7.8	845 846	23AF			169 0	0.27	1.34	--	0.80 --	--	--	0.10 --	-- 0.28

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY		FIELD TURB		FIELD CAC03		LAB MCO3 CO3	NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER									
				PH	EC	F-CO2	CAC03	T	N02			F ORG N	N F (NH3 + U ORG N)	D15 A.H.P04	F H3P04 U H3P04	F TOT P U TOT P					
89 D 758.6 138.3 ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE															CONTINUED						
08/31/73	5001		22	C	7.8	515	26AF			84		--	--	0.20		0.07	--				
0855	5001		3		8.3	528			0	0.03	0.09	--	--	--	--	--	0.13				
09/17/73	5001		23	C	7.8	410	26AF			89		--	--	0.20		0.07	--				
1005	5001		3		8.2	380			0	0.04	0.12	--	--	--	--	--	0.13				
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																					
10/16/72	5001		18	C	7.3		13AF			118		--	--	--		--	--				
1240	5001		2		7.4	526			0	0.36	1.20	0.50	0.86	--	0.18	0.30					
11/20/72	5001		11	C	7.2		10AF				0.88	0.67	0.80	1.68	--	0.35	0.47				
0830	5001		2			736															
12/18/72	5001		5	C	7.5		5AF				0.39	1.20	0.80	1.19	--	0.09	0.29				
1115	5001		3			771															
01/22/73	5001		9	C	6.9		50AF			67		--	1.20	--	--	--	--				
1130	5001		3		7.2	286			0	0.32	0.97	1.50	1.82	--	0.20	0.32					
02/20/73	5001		12	C	7.4		40AF					--	0.40	--	0.15	--	--				
1145	5001		2			357					0.15	0.76	0.85	--	--	0.33					
03/06/73	5001		12	C	7.5		23AF			92		--	0.30	--	0.14	--	--				
1115	5001		2		7.7	404			0	0.15	0.73	--	--	--	--	0.23					
04/03/73	5001		13	C	7.8	518	18AF			101		--	--	0.50	0.15	--	--				
1030	5001		1		7.6	481			0	0.14	0.81	--	--	--	--	0.15					
05/01/73	5001		19	C	7.7	732	21AF			124		--	--	0.60	0.18	--	--				
0900	5001		1		7.7	720			0	0.17	0.74	--	--	--	--	0.34					
06/05/73	5001		25	C	8.8	390	28AF			74		--	--	0.30	0.15	--	--				
1335	5001		2		7.8	363			0	0.04	0.23	--	--	--	--	0.25					
07/02/73	5001		26	C	7.6	412	17AF			84		--	--	0.40	0.13	--	--				
1310	5001		3		8.1	390			0	0.12	0.23	--	--	--	--	0.24					
07/31/73	5001		26	C	7.6	410	23AF			124		--	--	0.30	0.08	--	--				
1120	5001		2		8.2	395			0	0.05	0.12	--	--	--	--	0.20					
08/28/73	5001		25	C	8.3	415	23AF			75		--	--	0.30	0.07	--	--				
1120	5001		3		8.9	400			10	0.04	0.09	--	--	--	--	0.19					
09/25/73	5001		20	C	8.0	648	18AF			145		--	--	0.90	0.34	--	--				
0900	5001		1		8.2	652			0	0.25	1.30	--	--	--	--	0.43					
89 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																					
03/12/73	5001		13	C	7.6	580	30AF			110		--	--	0.80	0.13	--	--				
1305	5001		3		7.8	710			0	0.10	1.80	--	--	--	--	0.20					
03/26/73	5001		14	C	7.5	865	14AF			128		--	--	0.50	0.10	--	--				
1220	5001		3		7.7	792			0	0.07	1.05	--	--	--	--	0.15					
04/09/73	5001		16	C	7.4	542	19AF			98		--	--	0.80	0.09	--	--				
1220	5001		3		7.5	514			0	0.22	0.74	--	--	--	--	0.10					
05/07/73	5001		18	C	7.6	243	26AF			73		--	--	0.40	0.06	--	--				
1050	5001		3		7.5	221			0	0.05	0.16	--	--	--	--	0.14					
05/25/73	5001		21	C	8.0	230	25AF			64		--	--	0.20	0.08	--	--				
1305	5001		3		8.2	166			0	0.03	0.32	--	--	--	--	0.17					
06/08/73	5001		25	C	8.0	240	23AF			78		--	--	0.40	0.08	--	--				
1255	5001		3		7.8	221			0	0.05	0.30	--	--	--	--	0.15					
06/22/73	5001		23	C	7.5	228			74		--	--	0.40	0.09	--	--					
1135	5001		3		8.0	212			0	0.07	0.29	--	--	--	--	0.14					
07/06/73	5001		24	C	7.8	430	21AF			75		--	--	--	0.08	--	--				
1050	5001		3		8.2	420			0	0.04	0.30	--	--	--	--	0.13					
07/23/73	5001		22	C	7.9	840	26AF			74		--	--	0.20	0.06	--	--				
1210	5001		3		8.1	791			0	0.05	0.12	--	--	--	--	0.14					
08/03/73	5001		23	C	7.9	685	23AF			72		--	--	0.20	0.07	--	--				
1115	5001		3		8.0	667			0	0.03	0.13	--	--	--	--	0.12					
08/20/73	5001		23.0C		7.6					74		--	--	0.40	0.06	--	--				
1215	5001		3		8.0	441			0	0.05	0.15	--	--	--	--	0.13					
08/31/73	5001		21	C	7.9	480	21AF			70		--	--	0.20	0.07	--	--				
1000	5001		3		8.8	474			6	0.04	0.16	--	--	--	--	0.12					
09/17/73	5001		23	C	8.0	360	19AF			86		--	--	0.20	0.07	--	--				
1055	5001		3		8.3	310			0	0.03	0.34	--	--	--	--	0.11					
89 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																					
03/12/73	5001		13	C	7.5	620	25AF			123		--	--	0.70	0.13	--	--				
1050	5001		3		7.7	722			0	0.12	1.45	--	--	--	--	0.22					
03/26/73	5001		13	C	7.3	830	15AF			120		--	--	0.60	0.12	--	--				
1000	5001		3		7.6	713			0	0.07	1.15	--	--	--	--	0.15					
05/07/73	5001		17	C	7.9	287	22AF			84		--	--	0.40	0.07	--	--				
0830	5001		3		7.6	266			0	0.03	0.04	--	--	--	--	0.14					
05/25/73	5001				8.0	360				82		--	--	0.20	0.09	--	--				
1045	5001		3		8.0	259			0	0.03	.29	--	--	--	--	0.19					
06/08/73	5001		25	C	7.9	280	25AF			80		--	--	0.30	0.10	--	--				
1020	5001		3		7.8	262			0	0.05	.32	--	--	--	--	0.18					
06/22/73	5001		24	C	7.8	285			80		--	--	0.40	0.09	--	--					
0935	5001		3		8.0	293			0	0.06	.27	--	--	--	--	0.18					
07/06/73	5001		24	C	7.8	685	27AF			81		--	--	--	0.09	--	--				
0910	5001		3		7.8	687			0	0.04	.17	--	--	--	--	0.17					

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	NUTRIENT ANALYSIS OF SURFACE WATER									
					FIELD					LAB				
					TURB	CACO3 P	HC03	NH3	NO2	F ORG N	F (NH3 + U ORG N)	DIS A.H.P04	F H3P04 U H3P04	F TOT P U TOT P
89 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE CONTINUED														
07/23/73	5001		21	C	7.4	1420			--	--	0.40		0.07	--
1030	5001		3		8.2	1240		79	0	0.06	.10	--	--	0.17
08/03/73	5001		22	C	8.0	1195	31AF	79			0.40		0.08	--
0930	5001		3		8.0	1170		0	0.03	.08	--	--	--	0.16
08/20/73	5001		21.0C		7.5			84			0.30		0.08	--
1000	5001		3		8.1	959		0	0.05	.10	--	--	--	0.16
08/31/73	5001		20	C	8.0	835	30AF	83			0.30		0.08	--
0740	5001		3		7.9	837		0	0.04	.12	--	--	--	0.16
09/17/73	5001		23	C	7.5	590	24AF	92			0.30		0.09	--
0915	5001		3		7.9	522		0	0.07	0.18	--	--	--	0.16
89 D 801.1 142.6 BIG BREAK NEAR OAKLEY														
10/17/72	5001		18	C	7.2		18AF	75			0.300	--	--	--
1435	5001		3		7.6	317		0	0.02	0.24	0.40	0.42	--	0.05 0.07
11/16/72	5001		13	C	7.7		28AF	73			0.400	--	--	--
1400	5001		3		7.6	280		0	0.06	0.46	0.40	0.46	--	0.08 0.13
12/13/72	5001		7	C	7.7		15AF	78			0.300	--	--	--
1245	5001		3		7.7	259		0	0.07	0.52	0.40	0.47	--	0.07 0.11
01/15/73	5001		8	C	7.0		32AF	70			0.500	--	--	--
1335	5001		3		7.5	240		0	0.11	0.93	0.60	0.71	--	0.08 0.14
02/14/73	5001										0.500	--	0.09	--
1600	5001								0.11	1.40	0.60	0.71	--	-- 0.16
03/13/73	5001		12	C	7.9		26AF	82			--	--	0.60	0.09
1200	5001		3		7.7	380		0	0.10	0.88	--	--	--	-- 0.16
03/27/73	5001		14.0C		7.3	485	20AF	93			--	--	0.60	0.09
1140	5001		3		7.6	477		0	0.06	0.86	--	--	--	-- 0.14
04/10/73	5001		17.0C		7.5	470	23AF	94			--	--	0.40	0.08
1230	5001		3		7.5	438		0	0.03	0.59	--	--	--	-- 0.09
04/24/73	5001		17.0C		8.6	375	22AF	85			--	--	0.20	0.04
1015	5001		3		7.8	302		0	0.01	0.02	--	--	--	-- 0.12
05/08/73	5001		18.0C		8.0	260	19AF	98			--	--	0.20	0.05
1215	5001		3		7.6	239		0	0.03	0.05	--	--	--	-- 0.12
05/29/73	5001		22.0C		7.7	250	24AF	72			--	--	0.30	0.08
1600	5001		3		7.7	225		0	0.07	0.33	--	--	--	-- 0.10
06/11/73	5001		24.0C		7.8	254	23AF	75			--	--	0.20	0.07
1620	5001		3		7.7	242		0	0.06	0.33	--	--	--	-- 0.14
06/25/73	5001		24	C	7.9	350	26AF				--	--	0.30	0.08
1420	5001		3						0.07	0.33	--	--	--	-- 0.12
07/09/73	5001		25.0C		7.9	1090	21AF	79			--	--	0.03	0.08
1500	5001		3		7.9	1140		0	0.06	0.26	--	--	--	-- 0.13
08/06/73	5001		22.0C		7.8	1118	32AF	77			--	--	0.50	0.08
1415	5001		3		8.2	1140		0	0.05	0.17	--	--	--	-- 0.13
08/21/73	5001		22.0C		7.5	710	28AF	82			--	--	0.30	0.07
1130	5001		3		7.9	777		0	0.01	0.13	--	--	--	-- 0.11
09/04/73	5001		21.0C		7.9	782	34AF	83			--	--	0.30	0.07
1230	5001		3		8.1	822		0	0.06	0.18	--	--	--	-- 0.15
09/18/73	5001		20.0C		7.9	344	23AF	83			--	--	0.30	0.08
1135	5001		3		8.5	365		0	0.05	0.08	--	--	--	-- 0.13
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL														
10/17/72	5001		18	C	7.2		25AF	66			0.200	--	--	--
1345	5001		3		7.5	714		0	0.03	0.18	0.40	0.43	--	0.06 0.08
11/16/72	5001		13	C	7.9		19AF	68			0.400	--	--	--
1325	5001		3		7.6	426		0	0.03	0.30	0.70	0.73	--	0.07 0.13
12/13/72	5001		7	C	7.5		16AF	78			0.100	--	--	--
1210	5001		3		7.7	269		0	0.05	0.46	0.30	0.35	--	0.07 0.10
01/15/73	5001		8	C	6.9		65AF	48			0.600	--	--	--
1245	5001		3		7.3	141		0	0.11	0.45	0.70	0.81	--	0.05 0.15
02/14/73	5001		10	C	7.6		80AF	74			0.400	--	0.06	--
1515	5001		3		7.5	230		0	0.10	0.74	0.50	0.6	--	-- 0.16
03/13/73	5001		14	C	8.0		25AF	78			--	--	0.50	0.07
1113	5001		3		7.5	311		0	0.07	0.75	--	--	--	-- 0.14
03/28/73	5001		13.0C		7.6	395	19AF	87			--	--	0.50	0.07
1135	5001		3		7.6	378		0	0.05	0.63	--	--	--	-- 0.12
04/10/73	5001		16.0C		7.2	400	16AF	93			--	--	0.40	0.07
1115	5001		3		7.5	372		0	0.03	0.50	--	--	--	-- 0.08
04/25/73	5001		17.0C		8.4	335	16AF	87			--	--	0.30	0.03
1310	5001		3		7.7	307		0	0.03	0.07	--	--	--	-- 0.09
05/08/73	5001		17.0C		7.9	615	15AF	75			--	--	0.20	0.05
1105	5001		3		7.6	607		0	0.02	0.05	--	--	--	-- 0.13
05/30/73	5001		21.0C		7.7	560	24AF	78			--	--	0.40	0.07
1730	5001		3		8.1	532		0	0.05	0.25	--	--	--	-- 0.11
06/11/73	5001		23.0C		7.7	552	33AF	78			--	--	0.20	0.07
1510	5001		3		7.8	537		0	0.05	0.33	--	--	--	-- 0.14
06/27/73	5001		24.0C		7.8	1550	35AF	73			--	--	0.40	0.09
1615	5001		3		7.9	1570		0	0.07	0.38	--	--	--	-- 0.14

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
				PH	EC	TURB F-CO2	CAC03 CAC03	P T	HC03 CO3	NH3	N02 N03	F ORG U ORG	N N	F (NH3 U ORG N)	DIS A.M.P04	F H3P04 U H3P04
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL CONTINUED																
07/09/73	5001		24.0C	7.7	2610	30AF		78		--	--	0.50		0.09	--	
1355	5001		3	7.7	2740			0	0.07	0.34	--	--	--	--	0.14	
08/06/73	5001		22.0C	7.4	3210	30AF		79		--	--	0.60		0.08	--	
1320	5001		3	8.1	3500			0	0.03	0.21	--	--	--	--	0.14	
08/22/73	5001		21.0C	7.8	2340	36AF		81		--	--	0.20		0.07	--	
1300	5001		3	8.0	2360			0	0.03	0.16	--	--	--	--	0.15	
09/04/73	5001		20.0C	7.3	2040	40AF		84		--	--	0.40		0.08	--	
1140	5001		3	7.9	2170			0	0.07	0.21	--	--	--	--	0.15	
09/19/73	5001		20.0C	8.0	749	32AF		86		--	--	0.30		0.08	--	
1130	5001		3	8.0	778			0	0.06	0.18	--	--	--	--	0.15	
89 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18																
09/13/73	5050		20 C		220	20AF				0.03	--	0.27	0.30	0.06	--	
0645	5001		3							0.14	0.39	0.42	--	--	0.11	
09/13/73	5050		20 C		222	18AF				0.04	--	0.26	0.30	0.06	--	
0646	5001		32							0.14	0.4	0.44	--	--	0.11	
09/21/73	5050		22 C		336	19AF				0.03	--	0.37	0.40	0.08	--	
0635	5001		3							0.32	0.73	0.76	--	--	0.18	
09/21/73	5050		22 C		324	23AF				0.04	--	0.37	0.40	0.08	--	
0736	5001		33							0.26	0.64	0.68	--	--	0.17	
89 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)																
10/17/72	5001		18 C	7.5		22AF		78		--	0.200	--	--	--	--	
1405	5001		3	7.5	537			0	0.01	0.18	0.40	0.41	--	0.05	0.10	
11/16/72	5001		14 C	7.7		17AF		71		--	0.400	--	--	--	--	
1345	5001		3	7.5	385			0	0.03	0.35	0.40	0.43	--	0.06	0.12	
12/13/72	5001		7 C	7.3		18AF		77		--	0.400	--	--	--	--	
1230	5001		3	7.7	264			0	0.03	0.48	0.40	0.43	--	0.07	0.10	
01/15/73	5001		8 C	7.0		32AF		70		--	0.400	--	--	--	--	
1305	5001		3	7.5	240			0	0.09	0.74	0.40	0.49	--	0.07	0.13	
02/14/73	5001		10 C	7.6		65AF		75		--	0.400	--	--	0.07	--	
1540	5001		3	7.5	280			0	0.09	0.98	0.50	0.59	--	--	0.16	
03/13/73	5001		12 C	7.9		25AF		80		--	--	0.50	--	0.07	--	
1140	5001		3	6.9	296			0	0.07	0.71	--	--	--	0.13		
03/27/73	5001		13.0C	7.4	375	20AF		87		--	--	0.40	--	0.08	--	
1110	5001		3	7.7	368			0	0.06	0.67	--	--	--	0.12		
04/10/73	5001		16.0C	7.4	412	18AF		91		--	--	0.40	--	0.07	--	
1155	5001		3	7.8	391			0	0.03	0.54	--	--	--	0.08		
04/24/73	5001		17.0C	8.0	370	10AF		86		--	--	0.30	--	0.05	--	
0930	5001		3	7.6	312			0	0.03	0.13	--	--	--	0.10		
05/08/73	5001		18.0C	8.0	410	19AF		80		--	--	0.10	--	0.04	--	
1150	5001		3	7.5	412			0	0.02	0.02	--	--	--	0.12		
05/29/73	5001		21.0C	7.6	435	28AF		75		--	--	0.40	--	0.07	--	
1530	5001		3	7.5	413			0	0.07	0.28	--	--	--	0.10		
06/11/73	5001		24.0C	7.7	515	30AF		77		--	--	0.20	--	0.07	--	
1550	5001		3	7.9	488			0	0.05	0.33	--	--	--	0.15		
06/25/73	5001		23.0C	7.4	820	30AF		82		--	--	0.30	--	0.08	--	
1340	5001		3	8.0	860			0	0.05	0.37	--	--	--	0.12		
07/09/73	5001		24.0C	7.8	1840	29AF		76		--	--	0.40	--	0.09	--	
1435	5001		3	7.7	1930			0	0.07	0.32	--	--	--	0.14		
08/06/73	5001		22.0C	7.7	2355	25AF		79		--	--	0.40	--	0.07	--	
1355	5001		3	8.1	2570			0	0.05	0.19	--	--	--	0.13		
08/21/73	5001		22.0C	6.8	1540	32AF		84		--	--	0.20	--	0.07	--	
1100	5001		3	8.1	1860			0	0.01	0.13	--	--	--	0.14		
09/04/73	5001		20.0C	7.7	1550	30AF		85		--	--	0.30	--	0.08	--	
1205	5001		3	8.1	1660			0	0.06	0.19	--	--	--	0.14		
09/18/73	5001		20.0C	7.4	698	26AF		87		--	--	0.30	--	0.07	--	
1100	5001		3	8.1	716			0	0.07	0.18	--	--	--	0.14		
89 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT																
03/28/73	5001		13.0C	7.6	405	21AF		86		--	--	0.50	--	0.07	--	
1120	5001		3	7.7	349			0	0.05	0.59	--	--	--	0.12		
04/25/73	5001		17.0C	8.2	334	17AF		88		--	--	0.30	--	0.05	--	
1240	5001		3	7.8	310			0	0.05	0.17	0.85	0.90	--	--	0.08	
05/30/73	5001		21.0C	7.7	1060	28AF		78		--	--	0.40	--	0.07	--	
1705	5001		3	8.2	967			0	0.06	0.24	--	--	--	0.14		
06/27/73	5001		24.0C	7.9	3300	32AF		79		--	--	0.40	--	0.09	--	
1550	5001		3	7.6	3350			0	0.09	0.38	--	--	--	0.13		
08/22/73	5001		21.0C	7.8	3950	37AF		81		--	--	0.20	--	0.08	--	
1240	5001		3	8.0	4420			0	0.03	0.14	--	--	--	0.15		
09/11/73	5001		20.0C	8.0	1320	38AF		86		--	--	0.30	--	0.09	--	
1110	5001		3	7.9	1460			0	0.06	0.22	--	--	--	0.16		

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
				LABORATORY PH	EC	TURB F-CO2	CAO3 CACO3	P T	CO3 CO3	NH3	NO2 NO3	F ORG U ORG	N N	F (NH3 U ORG N)	DIS A.H.PD4	F H3PO4 U H3PO4	F TOT P U TOT P
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																	
10/17/72	5001		18	C	7.7			20AF		70			--	0.400	--	--	--
1625	5001		3		7.6	287			0	0.03		0.29	0.40	0.43	--	0.06	0.10
11/15/72	5001		12	C	7.8			31AF		66			--	0.400	--	--	--
1340	5001		3		7.6	224			0	0.04		0.38	0.70	0.74	--	0.07	0.19
12/12/72	5001		6	C	7.5			16AF		76			--	0.300	--	--	--
1135	5001		3		7.7	244			0	0.08		0.51	0.40	0.48	--	0.08	0.10
02/13/73	5001		11	C	7.8			24AF		84			--	0.500	--	0.08	--
1515	5001		3		7.7	480			0	0.12		1.90	0.60	0.72	--	--	0.14
03/13/73	5001		12	C	7.8			23AF		82			--	--	0.50	0.08	--
1330	5001		3		7.7	392			0	0.10		0.93	--	--	--	--	0.16
03/27/73	5001		14	OC	7.5			18AF		100			--	--	0.60	0.10	--
1315	5001		3		7.7	575 548			0	0.07		0.95	--	--	--	--	0.16
04/10/73	5001		17	OC	7.7			15AF		90			--	--	0.40	0.08	--
1430	5001		3		7.6	472 439			0	0.03		0.62	--	--	--	--	0.09
04/24/73	5001		17	OC	7.2			16AF		82			--	--	0.20	0.05	--
1240	5001		3		7.6	300 271			0	0.04		0.19	--	--	--	--	0.10
05/08/73	5001		19	OC	8.0			19AF		72			--	--	0.0	0.05	--
1440	5001		3		7.5	222 209			0	0.03		0.12	--	--	--	--	0.11
05/29/73	5001		23	OC	7.9			16AF		72			--	--	0.20	0.08	--
1750	5001		3		7.7	230 198			0	0.06		0.31	--	--	--	--	0.12
06/11/73	5001		23	OC	7.9			19AF		78			--	--	0.10	0.07	--
1825	5001		3		8.1	228 200			0	0.04		0.29	--	--	--	--	0.13
06/26/73	5001		25	OC	7.9			26AF		74			--	--	0.30	0.09	--
1750	5001		3		8.1	290 270			0	0.07		0.31	--	--	--	--	0.12
07/09/73	5001		26	OC	8.1			18AF		78			--	--	--	--	--
1700	5001		3		8.1	721 766			0	0.06		0.26	--	--	--	--	--
08/06/73	5001		22	OC	7.9			25AF		78			--	--	0.40	0.07	--
1545	5001		3		7.8	575 614			0	0.03		0.18	--	--	--	--	0.11
08/21/73	5001		22	OC	7.7			14AF		78			--	--	0.10	0.07	--
1335	5001		3		8.2	500 548			0	0.01		0.10	--	--	--	--	0.11
09/04/73	5001		21	OC	7.8			24AF		80			--	--	0.30	0.07	--
1445	5001		3		8.0	455 496			0	0.06		0.17	--	--	--	--	0.13
09/18/73	5001		20	OC	8.0			19AF		84			--	--	0.20	0.08	--
1320	5001		3		7.8	292 301			0	0.04		0.16	--	--	--	--	0.13
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																	
10/18/72	5001		19	C	7.7			25AF					--	0.200	--	--	--
1505	5001		3			757				0.03		0.16	0.30	0.33	--	0.05	0.11
11/15/72	5001		13	C	7.8			23AF		68			--	0.400	--	--	--
1150	5001		3		7.5	322			0	0.04		0.30	0.50	0.54	--	0.06	0.13
12/12/72	5001		7	C	7.6			18AF		75			--	0.400	--	--	--
0950	5001				7.6	264			0	0.04		0.45	0.40	0.44	--	0.07	0.10
02/13/73	5001		11	C	7.7			90AF		75			--	0.300	--	0.05	--
1320	5001		3		7.5	205			0	0.07		0.37	0.30	0.37	--	--	0.18
03/15/73	5001		12	C	7.9			34AF		76			--	--	0.08	0.05	--
1330	5001		3		7.5	202			0	0.05		0.36	--	--	--	--	0.11
03/29/73	5001		13	OC	7.6			27AF		85			--	--	0.40	0.06	--
1150	5001		3		7.6	321 304			0	0.04		0.49	--	--	--	--	0.13
04/12/73	5001		16	OC	7.7			27AF		91			--	--	0.30	0.06	--
1225	5001		3		7.7	368 343			0	0.04		0.43	--	--	--	--	0.11
04/26/73	5001		17	OC	8.5			13AF		85			--	--	0.30	0.03	--
1125	5001		3		7.7	320 275			0	0.02		0.08	--	--	--	--	0.09
05/10/73	5001		18	OC	8.1			14AF		82			--	--	0.20	0.05	--
1150	5001		3		7.7	615 590			0	0.02		0.05	--	--	--	--	0.11
05/31/73	5001		20	OC	7.7			28AF		77			--	--	0.30	0.07	--
1650	5001		3		7.9	475 464			0	0.06		0.26	--	--	--	--	0.13
06/13/73	5001		22	OC	7.7			42AF		86			--	--	0.30	0.09	--
1700	5001		3		8.1	680 673			0	0.07		0.34	--	--	--	--	0.16
06/26/73	5001		24	OC	7.8			60AF		71			--	--	0.40	0.09	--
1450	5001		3		7.9	1950 1140			0	0.10		0.36	--	--	--	--	0.12
07/11/73	5001		23	OC	7.8			29AF		73			--	--	0.30	0.09	--
1620	5001		3		8.3	1468 1090			0	0.08		0.28	--	--	--	--	0.18
08/08/73	5001		21	OC	7.9			50AF		78			--	--	0.50	0.08	--
1440	5001		3		8.2	2260 2540			0	0.07		0.19	--	--	--	--	0.19
08/23/73	5001		21	OC	7.9			45AF		80			--	--	0.30	0.07	--
1400	5001		3		8.0	2040 2040			0	0.02		0.15	--	--	--	--	0.17
09/06/73	5001		20	OC	8.0			35AF		86			--	--	0.20	0.09	--
1350	5001		3		8.3	1240 1220			0	0.03		0.24	--	--	--	--	0.15
09/20/73	5001		20	OC	7.8			33AF		87			--	--	0.30	0.08	--
1200	5001		3		7.8	621 755			0	0.06		0.19	--	--	--	--	0.15

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER												
				LABORATORY PH	EC	TURB F-CO2	FIELD CACO3 P CACO3 T	LAB HCO3 CO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					DIS				
										NH3	NO2 NO3	F II	ORG ORG N	N U	F (NH3 + ORG N)	A.M.P04	F H3P04 U H3P04	F TOT P U TOT P
89 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																		
10/16/72	5001		16	C	7.4						73	--	--	--	--	--	--	--
1105	5001		3		7.5	167	26AF		0	0.03	0.10	0.40	0.43	--	--	0.05	0.14	
11/21/72	5001		10	C	7.3		40AF					--	--	--	--	--	--	
0830	5001		3			330				0.34	0.84	1.40	1.74	--	--	0.41	0.61	
12/19/72	5001		7	C	7.5		18AF					--	--	--	--	--	--	
1055	5001		3			448				0.09	1.35	0.80	0.89	--	--	0.24	0.30	
01/22/73	5001		7	C	6.9		80AF		70			--	1.40	--	--	--	--	
1020	5001		3		7.3	227			0	0.35	1.75	1.50	1.85	--	--	0.33	0.49	
02/20/73	5001		12	C	7.3		36AF					--	0.70	--	--	0.24	--	
1025	5001		3			272				0.20	1.30	1.20	1.4	--	--	--	0.44	
03/06/73	5001		12	C	7.5		55AF		66			--	0.80	--	--	0.20	--	
0940	5001		3		6.9	168			0	0.25	0.70	--	--	--	--	--	0.42	
04/03/73	5001		13	C	8.0		35AF		106			--	--	0.50	--	0.15	--	
0910	5001		2		7.3	419			0	0.03	0.39	--	--	--	--	--	0.31	
05/01/73	5001		18	C	7.7		18AF		91			--	--	0.30	--	0.18	--	
0720	5001		3		7.4	248			0	0.02	0.02	--	--	--	--	--	0.33	
06/05/73	5001		23	C	7.9		34AF		79			--	--	0.30	--	0.09	--	
1200	5001		3		7.9	220			0	0.03	0.04	--	--	--	--	--	0.29	
07/02/73	5001		26	C	7.8		34AF		86			--	--	0.50	--	0.07	--	
1110	5001		3		8.0	235			0	0.05	0.07	--	--	--	--	--	0.35	
07/31/73	5001		25	C	7.9		27AF		92			--	--	0.30	--	0.06	--	
0950	5001		3		8.3	260			0	0.02	0.02	--	--	--	--	--	0.21	
08/28/73	5001		23	C	8.2		36AF		88			--	--	0.30	--	0.03	--	
1000	5001		3		8.1	219			0	0.03	0.05	--	--	--	--	--	0.21	
09/25/73	5001		18	C	7.9		31AF		83			--	--	0.40	--	0.05	--	
0740	5001		3		8.0	189			0	0.03	0.03	--	--	--	--	--	0.19	
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																		
10/17/72	5001		18	C	7.6		20AF		75			--	0.300	--	--	--	--	
1450	5001		3		7.5	350			0	0.01	0.20	0.40	0.41	--	--	0.06	0.10	
11/16/72	5001		13	C	7.7		18AF		70			--	0.400	--	--	--	--	
1425	5001		3		7.6	280			0	0.03	0.82	0.40	0.43	--	--	0.07	0.12	
12/13/72	5001		6	C	7.5		18AF		78			--	0.300	--	--	--	--	
1310	5001		3		7.7	244			0	0.07	0.47	0.40	0.47	--	--	0.07	0.10	
01/15/73	5001		8	C	7.0		37AF		70			--	0.500	--	--	--	--	
1355	5001		3		7.5	260			0	0.14	0.91	0.50	0.64	--	--	0.07	0.14	
02/14/73	5001				7.5		55AF		72			--	0.500	--	--	0.08	--	
1630	5001		3		7.5	270			0	0.11	1.00	0.50	0.61	--	--	--	0.16	
03/13/73	5001		12	C	7.8		26AF		78			--	--	0.60	--	0.08	--	
1230	5001		3		7.6	325			0	0.10	0.77	--	--	--	--	--	0.15	
03/27/73	5001		13	OC	7.4		20AF		89			--	--	0.50	--	0.09	--	
1205	5001		3		7.7	420			0	0.08	0.73	--	--	--	--	--	0.14	
04/10/73	5001		15	OC	7.5		17AF		87			--	--	0.30	--	0.07	--	
1255	5001		3		7.7	395			0	0.04	0.51	--	--	--	--	--	0.08	
04/24/73	5001		16	OC	7.6		17AF		84			--	--	0.20	--	0.05	--	
1050	5001		3		7.7	310			0	0.03	0.16	--	--	--	--	--	0.10	
05/08/73	5001		18	OC	8.0		13AF		75			--	--	0.20	--	0.05	--	
1255	5001		3		7.7	235			0	0.03	0.11	--	--	--	--	--	0.11	
05/29/73	5001		22	OC	7.7		26AF		74			--	--	0.40	--	0.08	--	
1625	5001		3		7.5	260			0	0.10	0.32	--	--	--	--	--	0.11	
06/11/73	5001		23	OC	7.8		23AF		77			--	--	0.30	--	0.07	--	
1650	5001		3		8.1	302			0	0.05	0.32	--	--	--	--	--	0.14	
06/27/73	5001		25	OC	8.0		27AF		77			--	--	0.50	--	0.09	--	
1645	5001		3		7.8	550			0	0.07	0.35	--	--	--	--	--	0.13	
07/09/73	5001		25	OC	7.8		23AF		78			--	--	0.40	--	0.08	--	
1530	5001		3		7.7	1420			0	0.07	0.29	--	--	--	--	--	0.13	
08/06/73	5001		22	OC	7.9		23AF		76			--	--	0.40	--	0.08	--	
1445	5001		3		8.2	1205			0	0.04	0.22	--	--	--	--	--	0.12	
08/21/73	5001		22	OC	7.7		29AF		81			--	--	0.10	--	0.07	--	
1205	5001		3		7.8	750			0	0.01	0.13	--	--	--	--	--	0.12	
09/04/73	5001		20	OC	7.9		25AF		82			--	--	0.30	--	0.07	--	
1305	5001		3		8.0	835			0	0.06	0.19	--	--	--	--	--	0.13	
09/18/73	5001		20	OC	8.0		22AF		85			--	--	0.30	--	0.07	--	
1200	5001		3		8.1	367			0	0.05	0.18	--	--	--	--	--	0.12	
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																		
03/15/73	5001		11	C	8.0		30AF		78			--	--	0.12	--	0.04	--	
1315	5001		3		7.2	204			0	0.04	0.33	--	--	--	--	--	0.11	
03/29/73	5001		12	OC	7.6		29AF		87			--	--	0.30	--	0.06	--	
1125	5001		3		7.7	315			0	0.04	0.43	--	--	--	--	--	0.11	
04/12/73	5001		15	OC	7.6		19AF		92			--	--	0.30	--	0.06	--	
1205	5001		3		7.7	328			0	0.05	0.37	--	--	--	--	--	0.09	
04/26/73	5001		16	OC	8.5		11AF		84			--	--	0.30	--	0.04	--	
1100	5001		3		7.7	280			0	0.03	0.15	--	--	--	--	--	0.08	

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER										
				PH	EC	TURB F-CO2	CACO3 CACO3	P T	HC03 CO3	NH3	NO2 NO3	F U	ORG ORG	N N	F U	(NH3 ORG N)	DIS A.H.P04	F U	H3P04 H3P04	F U	TOT TOT
B9 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO CONTINUED																					
05/10/73	5001		18.0C	8.0	850	21AF	83														
1110	5001		3	7.9	816		0	0.02	0.07	--	--	0.10	--	--	--	--	--	0.05	--	--	0.02
05/31/73	5001		20.0C	7.6	575	33AF	78														
1600	5001		3	8.0	545		0	0.07	0.26	--	--	0.20	--	--	--	--	--	0.07	--	--	0.13
06/13/73	5001		21.0C	7.8	835	50AF	78														
1630	5001		3	8.0	808		0	0.07	0.35	--	--	0.30	--	--	--	--	--	0.09	--	--	0.15
06/26/73	5001		23.0C	7.9	1080	45AF	79														
1415	5001		3	8.2	1100		0	0.07	0.36	--	--	0.30	--	--	--	--	--	0.09	--	--	0.13
07/11/73	5001		23.0C	7.9	3562	32AF	80														
1555	5001		3	8.3	3890		0	0.08	0.30	--	--	0.30	--	--	--	--	--	0.09	--	--	0.18
08/08/73	5001		20.0C	8.1	4120	50AF	80														
1420	5001		3	8.2	4700		0	0.05	0.24	--	--	0.60	--	--	--	--	--	0.08	--	--	0.20
08/23/73	5001		20.0C	7.9	3520	60AF	80														
1340	5001		3	8.0	3810		0	0.03	0.15	--	--	0.30	--	--	--	--	--	0.08	--	--	0.18
09/06/73	5001		20.0C	8.0	2120	35AF	84														
1335	5001		3	8.2	2250		0	0.06	0.22	--	--	0.20	--	--	--	--	--	0.09	--	--	0.16
09/20/73	5001		20.0C	7.9	689	35AF	85														
1140	5001		3	8.0	722		0	0.07	0.21	--	--	0.30	--	--	--	--	--	0.08	--	--	0.15
B9 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																					
10/17/72	5001		18 C	7.6		19AF	66														
1555	5001		3	7.4	206		0	0.07	0.25	0.300	--	0.40	0.47	--	--	--	--	0.07	--	--	0.10
11/15/72	5001		12 C	7.7		16AF	66														
1405	5001		3	7.6	187		0	0.06	0.29	0.300	--	0.30	0.36	--	--	--	--	0.07	--	--	0.15
12/12/72	5001		6 C	7.7		15AF	74														
1200	5001		3	7.7	214		0	0.10	0.40	0.300	--	0.30	0.4	--	--	--	--	0.08	--	--	0.10
02/13/73	5001		11 C	7.5		45AF	75														
1550	5001		3	7.5	275		0	0.13	0.94	0.600	--	0.60	0.73	--	--	--	--	0.09	--	--	0.16
03/13/73	5001		12 C	7.8		24AF	79														
1400	5001		3	7.7	348		0	0.12	0.82	--	--	0.60	--	--	--	--	--	0.10	--	--	0.18
03/27/73	5001		13.0C	7.3	430	24AF	89														
1255	5001		3	7.6	421		0	0.12	0.71	--	--	0.60	--	--	--	--	--	0.10	--	--	0.15
04/10/73	5001		16.0C	7.4	372	14AF	84														
1405	5001		3	7.6	351		0	0.04	0.51	--	--	0.30	--	--	--	--	--	0.08	--	--	0.08
04/24/73	5001		16.0C	7.5	266	15AF	76														
1205	5001		3	7.6	239		0	0.03	0.26	--	--	0.20	--	--	--	--	--	0.06	--	--	0.10
05/08/73	5001		18.0C	7.8	205	22AF	67														
1410	5001		3	7.5	188		0	0.06	0.23	--	--	0.20	--	--	--	--	--	0.07	--	--	0.13
05/29/73	5001		21.0C	7.6	210	15AF	71														
1725	5001		3	7.7	181		0	0.08	0.25	--	--	0.30	--	--	--	--	--	0.08	--	--	0.11
06/11/73	5001		23.0C	7.7	203	16AF	73														
1755	5001		3	7.9	160		0	0.05	0.27	--	--	0.20	--	--	--	--	--	0.07	--	--	0.12
06/26/73	5001		24.0C	7.8	195	18AF	70														
1720	5001		3	7.9	196		0	0.07	0.31	--	--	0.40	--	--	--	--	--	0.09	--	--	0.12
07/09/73	5001		25.0C	7.8	355	18AF	72														
1630	5001		3	7.8	373		0	0.07	0.28	--	--	0.30	--	--	--	--	--	0.09	--	--	0.13
08/06/73	5001		23.0C	8.0	277	17AF	74														
1620	5001		3	8.2	309		0	0.06	0.21	--	--	0.30	--	--	--	--	--	0.07	--	--	0.11
08/21/73	5001		23.0C	7.9	223	15AF	80														
1310	5001		3	8.2	235		0	0.02	0.12	--	--	0.20	--	--	--	--	--	0.07	--	--	0.10
09/04/73	5001		21.0C	7.9	238	16AF	84														
1415	5001		3	8.2	230		0	0.07	0.16	--	--	0.40	--	--	--	--	--	0.07	--	--	0.11
09/18/73	5001		21.0C	7.9	200	12AF	84														
1300	5001		3	7.9	208		0	0.07	0.17	--	--	0.30	--	--	--	--	--	0.07	--	--	0.12
B9 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON																					
03/15/73	5001		12 C	8.0		38AF	86														
1400	5001		3	6.9	216		0	0.05	0.33	--	--	0.10	--	--	--	--	--	0.04	--	--	0.12
03/29/73	5001		13.0C	7.6	240	18AF	87														
1225	5001		3	7.7	222		0	0.07	0.31	--	--	0.30	--	--	--	--	--	0.05	--	--	0.10
05/31/73	5001		20.0C	7.7	280	18AF	67														
1720	5001		3	8.6	262		6	0.07	0.24	--	--	0.20	--	--	--	--	--	0.07	--	--	0.10
06/13/73	5001		21.0C	7.9	269	26AF	80														
1730	5001		3	8.0	437		0	0.07	0.30	--	--	0.30	--	--	--	--	--	0.08	--	--	0.11
06/26/73	5001		23.0C	7.8	300	25AF	75														
1520	5001		3	8.2	280		0	0.07	0.27	--	--	0.20	--	--	--	--	--	0.08	--	--	0.13
07/11/73	5001		23.0C	7.9	486	20AF	70														
1650	5001		3	8.1	529		0	0.24	0.28	--	--	0.70	--	--	--	--	--	0.08	--	--	0.13
08/08/73	5001		21.0C	8.0	594	50AF	75														
1505	5001		3	8.2	1160		0	0.03	0.21	--	--	0.30	--	--	--	--	--	0.08	--	--	0.17
08/23/73	5001		20.0C	7.9	722	27AF	79														
1410	5001		3	8.1	554		0	0.02	0.16	--	--	0.20	--	--	--	--	--	0.07	--	--	0.12
09/06/73	5001		20.0C	8.2	354	20AF	86														
1430	5001		3	8.3	546		0	0.05	0.15	--	--	0.50	--	--	--	--	--	0.06	--	--	0.13
09/20/73	5001		20.0C	7.9	321	22AF	86														
1230	5001		3	8.1	342		0	0.06	0.20	--	--	0.30	--	--	--	--	--	0.08	--	--	0.14

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY		FIELD TURB CAC03 P			LAB MC03			NUTRIENT ANALYSIS OF SURFACE WATER					
				PH	EC	F-CO2	CAC03	T	CO3	NH3	NO2 NO3	F ORG N U ORG N	F (NH3) U ORG N	DIS A.H.PO4	F H3PO4 U H3PO4	F TOT P U TOT P	
R9 D 805.2 124.1 WHITE SLOUGH AT RIO BLANCO TRACT																	
10/16/72	5001		17 C	7.4			15AF		173			--	--	--	--	--	--
1020	5001		3	7.5	544				0	1.20		4.80	2.10	3.3	--	3.98	5.81
11/21/72	5001		12 C	7.1			15AF					--	--	--	--	--	--
0920	5001		3		560					2.50		4.90	1.70	4.2	--	3.13	4.76
02/20/73	5001		12 C	6.9			20AF					--	0.90	--	--	2.70	--
0935	5001		3		735					1.20		3.50	1.40	2.6	--	--	3.10
04/03/73	5001		13 C	7.3	829		16AF		206			--	--	3.00	--	5.40	--
0820	5001		3	7.5	754				0	2.00		7.80	--	--	--	--	6.30
05/01/73	5001		18 C	7.5	270		22AF		100			--	--	0.50	--	0.60	--
0620	5001		3	7.4	265				0	0.04		0.23	--	--	--	--	0.79
06/05/73	5001		23 C	7.9	350		28AF		119			--	--	0.40	--	0.52	--
1030	5001		3	7.9	295				0	0.04		0.15	--	--	--	--	0.60
07/02/73	5001		25 C	7.4	370		17AF		141			--	--	0.60	--	0.57	--
0945	5001		3	8.2	373				0	0.04		0.04	--	--	--	--	0.97
07/31/73	5001		25 C	7.6	380		11AF		164			--	--	0.70	--	0.48	--
0845	5001		3	8.0	422				0	0.02		0.02	--	--	--	--	0.68
08/28/73	5001		21 C	7.7	495		13AF		156			--	--	0.60	--	0.66	--
0855	5001		3	8.7	427				13	0.03		0.05	--	--	--	--	0.98
09/25/73	5001		18 C	7.7	420		11AF		196			--	--	1.30	--	0.96	--
0645	5001		3	8.5	493				3	0.51		0.07	--	--	--	--	1.26
R9 D 805.2 126.0 WHITE SLOUGH NEAR LODI																	
10/17/72	5001		18 C	7.6			11AF		97			--	--	--	--	--	--
1015	5001		1	7.5	255				0	0.13		0.88	0.60	0.73	--	0.54	0.78
11/21/72	5001		11 C	7.6			10AF					--	--	--	--	--	--
1015	5001		2		330					0.03		1.15	0.60	0.63	--	0.09	0.48
12/19/72	5001		7 C	7.6			7AF					--	--	--	--	--	--
1145	5001		3		279					0.09		0.58	0.30	0.39	--	0.19	0.22
03/06/73	5001		12 C	7.5			20AF		127			--	0.50	--	--	0.33	--
0835	5001		3	7.6	528				0	0.12		1.72	--	--	--	--	0.49
R9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND																	
03/13/73	5001		11 C	7.8			30AF		76			--	--	0.50	--	0.06	--
1300	5001		3	7.6	258				0	0.09		0.62	--	--	--	--	0.13
03/27/73	5001		13.0C	7.4	350		30AF		80			--	--	0.50	--	0.08	--
1225	5001		3	7.7	337				0	0.09		0.59	--	--	--	--	0.13
04/10/73	5001		16.0C	7.5	328		14AF		84			--	--	0.30	--	0.07	--
1320	5001		3	7.5	300				0	0.22		0.45	--	--	--	--	0.08
04/24/73	5001		16.0C	7.6	277		13AF		82			--	--	0.20	--	0.05	--
1118	5001		3	7.8	247				0	0.03		0.22	--	--	--	--	0.10
05/08/73	5001		18.0C	7.9	215		20AF		51			--	--	0.10	--	0.05	--
1330	5001		3	7.6	448				0	0.04		0.16	--	--	--	--	0.12
05/29/73	5001		21.0C	7.7	235		17AF		73			--	--	0.40	--	0.08	--
1655	5001		3	7.7	212				0	0.05		0.30	--	--	--	--	0.11
06/11/73	5001		23.0C	7.8	255		22AF		76			--	--	0.30	--	0.07	--
1720	5001		3	7.8	235				0	0.12		0.34	--	--	--	--	0.12
06/26/73	5001		23.0C	7.8	360		25AF		75			--	--	0.30	--	0.09	--
1645	5001		3	8.0	366				0	0.06		0.32	--	--	--	--	0.13
07/09/73	5001		24.0C	7.9	835		22AF		76			--	--	0.30	--	0.09	--
1550	5001		3	8.0	869				0	0.07		--	--	--	--	--	0.14
08/06/73	5001		22.0C	7.9	759		22AF		75			--	--	0.30	--	0.08	--
1510	5001		3	8.3	814				0	0.02		0.21	--	--	--	--	0.11
08/21/73	5001		22.0C	7.8	594		24AF		78			--	--	0.20	--	0.08	--
1230	5001		3	8.2	651				0	0.01		0.15	--	--	--	--	0.15
09/04/73	5001		20.0C	7.9	542		25AF		83			--	--	0.40	--	0.07	--
1335	5001		3	8.1	658				0	0.05		0.20	--	--	--	--	0.11
09/18/73	5001		20.0C	8.0	283		17AF		86			--	--	0.20	--	0.07	--
1220	5001		3	8.0	293				0	0.04		0.18	--	--	--	--	0.12
R9 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																	
03/07/73	5001		12 C	7.3			26AF		67			--	0.60	--	--	0.06	--
1500	5001		3	7.5	270				0	0.12		0.95	--	--	--	--	0.12
04/04/73	5001		13 C	7.6	210		18AF		67			--	--	0.20	--	0.04	--
1030	5001		3	7.4	174				0	0.06		0.22	--	--	--	--	0.07
05/02/73	5001		17 C	7.1	158		14AF		61			--	--	0.10	--	0.05	--
0900	5001		3	7.6	146				0	0.04		0.17	--	--	--	--	0.11
06/06/73	5001		23 C	7.5	180		20AF		70			--	--	0.20	--	0.07	--
1210	5001		3	7.9	170				0	0.06		0.22	--	--	--	--	0.13
07/03/73	5001		24 C	7.7	190		18AF		75			--	--	0.20	--	0.08	--
1150	5001		3	7.7	168				0	0.05		0.25	--	--	--	--	0.15
08/01/73	5001		24 C	7.9	185		13AF		73			--	--	0.30	--	0.08	--
1220	5001		3	8.0	165				0	0.04		0.15	--	--	--	--	0.15
08/29/73	5001		22 C	7.8	195		13AF		80			--	--	0.20	--	0.06	--
1115	5001		3	8.3	186				0	0.04		0.11	--	--	--	--	0.10
09/26/73	5001		18 C	8.0	175		13AF		76			--	--	0.30	--	0.07	--
0855	5001		3	7.8	174				0	0.07		0.14	--	--	--	--	0.11

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	FIELD EC	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN HILLIGRAMS PER LITER				
						TURB F-CO2	CACO3 T	P CO3	NO2 NO3	F U	ORG N	N U	F U	(NH3 + U ORG N)	DIS A.M.P.O4
89 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN															
10/17/72	5001		16 C	7.3			23AF	281			--	--	--	--	--
1050	5001		2	7.3	564			0	5.90	0.10	7.10	13.0	--	2.28	4.24
11/21/72	5001		10 C	7.1			32AF				--	--	--	--	--
1055	5001		2		700				9.40	0.05	7.10	16.5	--	3.26	4.89
12/19/72	5001		8 C	7.5			29AF				--	--	--	--	--
1335	5001		3		638				8.00	0.03	9.00	17.0	--	2.28	4.08
01/23/73	5001		7 C	6.9			40AF	205			--	2.00	--	--	--
1035	5001		3	7.3	438			0	3.60	0.39	3.40	7.0	--	1.60	2.32
02/21/73	5001		12 C	7.2			31AF				--	2.30	--	--	--
1040	5001		3		864				7.70	0.08	7.30	15.0	--	--	5.20
03/07/73	5001		13 C	7.1			35AF	422			--	100.00	--	--	--
1315	5001		3	7.1	1050			0	9.60	0.14	--	--	--	2.30	6.50
04/04/73	5001		17 C	7.5			38AF	136			--	--	4.70	1.20	--
1335	5001		1	7.2	448 354			0	3.00	0.24	--	--	--	--	--
05/02/73	5001		21 C	7.4			25AF	59			--	--	1.90	0.49	--
1145	5001		1	7.3	210 177			0	1.05	0.28	--	--	--	--	0.94
06/06/73	5001		28 C	7.3			21AF	95			--	--	5.60	2.20	--
1455	5001		1.5	7.0	340 280			0	3.60	0.15	--	--	--	--	3.60
07/03/73	5001		29 C	7.8			23AF	64			--	--	1.80	0.47	--
1440	5001		1	7.7	182 167			0	0.84	0.15	--	--	--	--	0.94
08/01/73	5001		25 C	7.8			16AF	64			--	--	1.40	0.34	--
1505	5001		1	7.4	186 165			0	0.52	0.20	--	--	--	--	0.70
08/29/73	5001		25 C	7.5			14AF	90			--	--	0.30	0.07	--
1355	5001		1	7.6	250 233			0	1.06	0.79	--	--	--	--	0.17
09/26/73	5001		20 C	7.4			14AF	70			--	--	3.80	1.45	--
1200	5001		1	7.4	255 219			0	2.60	0.08	--	--	--	--	2.10
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE															
10/18/72	5001		17 C	7.7			12AF	64			--	0.100	--	--	--
1600	5001		3	7.6	167			0	0.06	0.22	0.20	0.26	--	0.07	0.12
11/15/72	5001		12 C	7.6			15AF	70			--	0.300	--	--	--
1230	5001		3	7.6	182			0	0.07	0.36	0.30	0.37	--	0.08	0.13
02/13/73	5001		10 C	7.8			150AF	82			--	0.300	--	0.05	--
1415	5001		3	7.6	178			0	0.07	0.33	0.40	0.47	--	--	0.20
03/15/73	5001		10 C	7.9			40AF	70			--	--	0.12	0.04	--
1425	5001		3	6.9	153			0	0.05	0.23	--	--	--	--	0.12
03/29/73	5001		13.0C	7.7			19AF	96			--	--	0.30	0.05	--
1300	5001		3	7.7	250 229			0	0.04	0.23	--	--	--	--	0.09
04/12/73	5001		16.0C	7.7			17AF	95			--	--	0.30	0.07	--
1330	5001		3	7.7	258 234			0	0.08	0.24	--	--	--	--	0.08
04/26/73	5001		17.0C	7.8			12AF	74			--	--	0.30	0.07	--
1235	5001		3	7.6	200 182			0	0.08	0.20	0.52	0.60	--	--	0.10
05/10/73	5001		18.0C	8.0			11AF	71			--	--	0.10	0.07	--
1255	5001		3	7.9	190 174			0	0.04	0.18	--	--	--	--	0.12
05/31/73	5001		20.0C	7.6			12AF	80			--	--	0.20	0.07	--
1805	5001		3	7.8	215 200			0	0.08	0.22	--	--	--	--	0.11
06/13/73	5001		21.0C	7.9			17AF	77			--	--	0.20	0.08	--
1805	5001		3	8.1	201 205			0	0.06	0.25	--	--	--	--	0.12
06/26/73	5001		24.0C	7.9			15AF	72			--	--	0.20	0.09	--
1550	5001		3	8.0	170 169			0	0.05	0.20	--	--	--	--	0.14
07/11/73	5001		23.0C	7.8			14AF	67			--	--	0.30	0.07	--
1720	5001		3	8.2	151 151			0	0.07	0.17	--	--	--	--	0.12
08/08/73	5001		22.0C	7.9			17AF	73			--	--	0.30	0.08	--
1540	5001		3	8.1	168 169			0	0.04	0.17	--	--	--	--	0.14
08/23/73	5001		21.0C	7.9			17AF	83			--	--	0.30	0.07	--
1500	5001		3	8.1	213 219			0	0.03	0.14	--	--	--	--	0.11
09/06/73	5001		20.0C	8.1			15AF	87			--	--	0.30	0.07	--
1500	5001		3	8.3	208 198			0	0.10	0.18	--	--	--	--	0.12
09/20/73	5001		20.0C	7.9			12AF	83			--	--	0.20	0.08	--
1300	5001		3	8.0	200 205			0	0.07	0.16	--	--	--	--	0.12
89 D 810.1 127.9 HOG SLOUGH NEAR THORNTON															
10/17/72	5001		19 C	7.4			9AF	114			--	--	--	--	--
1145	5001		3	7.5	387			0	0.09	0.25	0.50	0.59	--	0.17	0.27
11/21/72	5001		11 C	7.2			18AF				--	--	--	--	--
1230	5001		3		740				0.09	0.41	1.20	1.29	--	0.39	0.42
12/19/72	5001		7 C	7.8			8AF				--	--	--	--	--
1440	5001		3		858				0.13	0.63	0.70	0.83	--	0.14	0.15
01/23/73	5001		8 C	7.1			19AF	185			--	1.20	--	--	--
1115	5001		3	7.5	515			0	0.46	0.41	1.30	1.76	--	0.60	0.79
02/21/73	5001		12 C	7.6			9AF				--	0.60	--	0.20	--
1135	5001		3		1110				0.11	1.40	0.90	1.01	--	--	0.27
03/07/73	5001		13 C	7.5			12AF	274			--	0.70	--	0.23	--
1150	5001		3	8.1	1410 1080			0	0.40	0.80	--	--	--	--	0.42
04/04/73	5001		15 C	8.3			12AF	271			--	--	--	--	--
1245	5001		3	8.0	1360 1120			0	0.08	0.16	--	--	--	--	--

TABLE D-6 (CONTINUED)

NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		FIELD LAB				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
				LABORATORY PH	EC	TURB F-CO2	CAC03 CAC03	P T	HCO3 CO3	NH3	NO2 NO3	F ORG N U ORG N	F (NH3 U ORG N)	DIS A.H.P04	F H3PO4 U H3PO4	F TOT P U TOT P
R9 D 810.1 127.9 HOG SLOUGH NEAR THORNTON CONTINUED																
05/02/73	5001		20	C	7.7	519	11AF		98		--	--	0.30		0.11	--
1100	5001		3		7.7	495			0	0.03	0.12	--	--	--	--	0.20
06/06/73	5001		25	C	7.8	410	19AF		87		--	--	0.30		0.08	--
1400	5001		3		7.6	398			0	0.05	0.06	--	--	--	--	0.13
07/03/73	5001		26	C	7.5	385	17AF		99		--	--	0.60		0.14	--
1345	5001		3		7.7	371			0	0.10	0.14	--	--	--	--	0.26
08/01/73	5001		26	C	7.6	312	10AF		87		--	--	0.60		0.17	--
1410	5001		3		8.0	288			0	0.04	0.03	--	--	--	--	0.29
08/29/73	5001		25	C	7.9	380	9AF		92		--	--	0.30		0.10	--
1305	5001		3		7.9	377			0	0.03	0.02	--	--	--	--	0.19
09/26/73	5001		19	C	7.7	390	14AF		99		--	--	0.50		0.15	--
1040	5001		3		7.6	388			0	0.08	0.09	--	--	--	--	0.27
R9 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON																
10/17/72	5001		17	C	7.2		10AF		96		--	--	--		--	--
1255	5001		3		7.2	275			0	1.25	0.11	1.00	2.25	--	0.46	0.72
11/22/72	5001		10	C	7.2		17AF				--	--	--		--	--
0925	5001		3			640				4.00	0.18	2.20	6.2	--	0.98	1.70
12/20/72	5001		8	C	7.3		17AF				--	--	--		--	--
1135	5001		3			712				5.10	0.15	4.50	9.6	--	1.30	1.96
01/23/73	5001		8	C	6.9		140AF		122		--	--	--		--	--
1220	5001		3		7.2	343			0	1.45	1.05	1.70	3.15	--	0.78	1.06
02/21/73	5001		13	C	7.2		24AF				--	--	--		1.20	--
1300	5001		3			762				4.40	0.13	3.10	7.5	--	--	1.62
03/07/73	5001		12	C	7.2	810	23AF		220		--	--	--		0.86	--
1055	5001		3		7.6	819			0	3.70	0.06	--	--	--	--	1.70
04/04/73	5001		14	C	8.0	445	8AF		140		--	--	3.00		--	--
1130	5001		3		7.5	390			0	2.00	0.36	--	--	--	--	--
05/02/73	5001		19	C	7.2	212	13AF		70		--	--	1.70		0.47	--
1000	5001		3		7.2	186			0	1.02	0.24	--	--	--	--	0.78
06/06/73	5001		25	C	9.2	170	18AF		59		--	--	0.30		0.07	--
1305	5001		3		7.7	171			0	0.03	0.05	--	--	--	--	0.25
07/03/73	5001		26	C	8.4	222	21AF		69		--	--	0.40		0.02	--
1250	5001		3		7.8	201			0	0.06	0.22	--	--	--	--	0.21
08/01/73	5001		25	C	8.3	210	10AF		69		--	--	0.30		0.03	--
1315	5001		3		8.1	193			0	0.02	0.03	--	--	--	--	0.12
08/29/73	5001		24	C	8.7	213	10AF		78		--	--	0.40		0.06	--
1205	5001		3		7.9	201			0	0.04	0.06	--	--	--	--	0.22
09/26/73	5001		19	C	7.6	225	11AF		84		--	--	0.90		0.19	--
1050	5001		3		7.6	222			0	0.32	0.08	--	--	--	--	0.34
R9 D 815.3 126.3 MOKFLUMNE RIVER NEAR THORNTON																
10/17/72	5001		16	C	7.0		6AF		32		--	--	--		--	--
1325	5001				7.0	69			0	0.03	0.03	0.30	0.33	--	0.02	0.03
11/22/72	5001		11	C	7.5		22AF				--	--	--		--	--
1045	5001		3			138				0.19	0.21	0.60	0.79	--	0.20	0.23
12/20/72	5001		9	C	7.1		65AF				--	--	--		--	--
1305	5001		3			135				0.11	0.79	0.70	0.81	--	0.05	0.09
01/23/73	5001		8	C	7.1		13AF		29		--	--	--		--	--
1310	5001		3		7.0	68			0	0.05	0.14	0.30	0.35	--	0.04	0.08
02/21/73	5001		10	C	7.2		14AF				--	--	--		0.03	--
1330	5001					95				0.03	0.16	0.10 0.20	0.23	--	--	0.06
03/07/73	5001		10	C	7.2	162	24AF		48		--	--	--		0.04	--
1010	5001		3		7.4	108			0	0.05	0.19	0.20	--	--	--	0.11
04/04/73	5001		12	C	7.6	130	13AF		52		--	--	0.10		0.01	--
0920	5001		3		7.4	114			0	0.01	0.04	--	--	--	--	0.03
05/02/73	5001		15	C	6.5	56	9AF		31		--	--	0.20		0.01	--
0810	5001		3		7.2	66			0	0.02	0.03	--	--	--	--	0.04
06/06/73	5001		20	C	7.0	70	8AF		25		--	--	0.10		0.01	--
1045	5001		3		7.3	59			0	0.01	0.04	--	--	--	--	0.04
07/03/73	5001		22	C	7.3	59	7AF		23		--	--	0.10		0.01	--
1035	5001		3		7.7	57			0	0.01	0.06	--	--	--	--	0.05
08/01/73	5001		23	C	7.2	60	3AF		23		--	--	0.10		0.01	--
1030	5001		3		7.8	56			0	0.02	0.03	--	--	--	--	0.04
08/29/73	5001		22	C	7.1	63	7AF		25		--	--	0.20		0.01	--
0955	5001		3		8.3	61			0	0.03	0.05	--	--	--	--	0.04
09/26/73	5001		15	C	7.3	49	3AF		25		--	--	0.20		0.01	--
0905	5001		3		7.6	59			0	0.01	0.06	--	--	--	--	0.03
R9 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																
10/17/72	5001		18	C	7.1		3AF		125		--	--	--		--	--
1455	5001		3		7.2	302			0	0.01	0.01	0.50	0.51	--	0.10	0.18
11/22/72	5001		11	C	7.1		15AF				--	--	--		--	--
1220	5001		3			330				0.13	0.53	0.90	1.03	--	0.29	0.46
12/20/72	5001		7	C	7.3		15AF				--	--	--		--	--
1445	5001		3			445				0.06	0.50	0.80	0.86	--	0.31	0.43

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
				LABORATORY PH	EC	TURB F-CO2	CACO3 CACO3	P T	HCO3 CO3	NH3	NO2 NO3	F U	ORG ORG	N N	F (NH3 U ORG N)	DIS A.H.P04
B9 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE CONTINUED																
01/23/73 1355	5001 5001		8 3	C 6.9		149	80AF		62		0.27	--	1.20	--	--	--
02/21/73 1425	5001 5001		13 3	C 6.9		215	32AF			0.05	--	0.46	0.40	1.15	--	0.39
03/07/73 0920	5001 5001		12 3	C 7.2		175 187	37AF		73	0.10	--	0.46	0.60	--	--	0.33
04/04/73 0840	5001 5001		12 3	C 7.6		347 333	12AF		122	0.02	--	0.30	--	0.50	--	0.13
05/02/73 0730	5001 5001		17 3	C 7.5		377 395	12AF		126	0.02	--	0.04	--	0.50	--	0.06
06/06/73 1000	5001 5001		24 3	C 7.9		280 250	18AF		98	0.04	--	0.13	--	0.40	--	0.15
07/03/73 0945	5001 5001		24 3	C 7.8		200 182	22AF		82	0.05	--	0.16	--	0.30	--	0.10
08/01/73 0930	5001 5001		24 3	C 8.2		180 169	17AF		76	0.03	--	0.04	--	0.30	--	0.06
08/29/73 0900	5001 5001		22 3	C 8.8		195 183	20AF		71	0.04	--	0.12	--	0.20	--	0.06
09/26/73 0720	5001 5001		18 3	C 8.3		209 212	19AF		94	0.05	--	0.10	--	0.30	--	0.07
B9 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																
10/18/72 1055	5001 5001		15 3	C 7.4			17AF		64	0.13	--	0.12	0.200	0.33	--	0.08
10/18/72 1155	5050 5000		59.0F 2	7.3 7.0		145 140	10A		66	--	--	0.11	--	--	--	0.13
11/14/72 1440	5050 5050		53 F	7.2 7.6		150 157	11A			--	--	0.21	--	0.3	--	0.08
11/15/72 1025	5050 5000		51.5F 2	7.3 6.7		170 174	40A		74	--	--	0.37	--	--	--	0.21
11/22/72 1325	5001 5001		10 C	7.8			29AF			0.07	--	0.19	0.30	0.37	--	0.07
12/20/72 1300	5050 5000		45.5F 2	7.3 7.4		129 118	100A		53	--	--	0.28	--	--	--	0.42
12/20/72 1520	5001 5001		7 C	7.2			200AF			0.08	--	0.23	0.70	0.78	--	0.08
01/17/73 1250	5050 5000		50.0F 2	7.2 7.3		100 95	70A		47	--	--	0.29	--	--	--	0.18
01/23/73 1500	5001 5001		8 C	7.4 7.2			95AF		52	0.06	--	0.20	0.50	0.56	--	0.05
02/21/73 1200	5050 5000		49.5F 2	7.3 7.6		139 142	30A		70	--	--	0.20	--	--	--	0.14
02/21/73 1500	5001 5001		10 C	7.4			30AF			0.03	--	0.18	0.100 0.20	0.23	--	0.05
03/07/73 0840	5001 5001		10 C	7.4 7.5			35AF		64	0.03	--	0.18	0.200	--	--	0.03
03/21/73 1240	5050 5000		52.0F 2	7.3 7.5		150 172	30A		81	--	--	0.22	--	--	--	0.16
04/04/73 0750	5001 5001		12 C	7.5 7.4		182 171	15AF		98	0.14	--	0.18	--	0.20	--	0.07
04/18/73 1350	5050 5000		59.0F 2	7.3 7.7		155 100	20A		73	--	--	0.18	--	--	--	0.12
05/02/73 0615	5001 5001		17 C	6.9 7.6		170 159	8AF		68	0.10	--	0.13	--	0.20	--	0.07
05/16/73 0730	5050 5000		70.2F 2	7.3 7.0		180 183	7A		79	--	--	0.10	--	--	--	0.11
06/06/73 0845	5001 5001		22 C	7.5 7.7		205 179	7AF		76	0.09	--	0.15	--	0.20	--	0.09
06/20/73 1040	5050 5000		69.5F 2	7.3 8.3		135 159	8A		73	--	--	0.11	--	--	--	0.14
07/03/73 0830	5001 5001		22 C	7.6 8.2		160 147	6AF		66	0.11	--	0.10	--	0.20	--	0.10
08/01/73 0830	5001 5001		23 C	7.8 8.0		190 167	8AF		76	0.10	--	0.10	--	0.30	--	0.08
08/15/73 1330	5050 5000		73 F	7.4 8.0		160 170	10A		82	--	--	0.08	--	--	--	0.16
08/29/73 0755	5001 5001		20.0C 3	7.8 8.8		197 185	13AF		74	0.10	--	0.10	--	0.20	--	0.06
09/26/73 0630	5001 5001		16 C	7.9 8.3		165 165	10AF		73	0.10	--	0.10	--	0.60	--	0.07

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER					CONSTITUENTS IN MILLIGRAMS PER LITER					
				LABORATORY PH	EC	TURB F-CO2	CACO3 CACO3 T	P CO3	NH3	NO2 NO3	F ORG U ORG	N N	F (NH3 U ORG N)	DIS A.H2PO4	F H3PO4 U H3PO4	F TOT U TOT
G7 L 908.7 000.3 LAKE TAHOE - NORTH CENTER (C-2)																
05/02/73 0840	5050 5050		45.2F 1	7.4	87 92	0.05A					0.0003 0.006	-- 0.12	-- 0.13	--	0.0010 --	-- 0.006
08/08/73 1005	5050 5050		66.4F 1	7.6	90 92	0.12A					0.0000 0.004	-- 0.18	-- 0.183	--	0.0016 --	-- 0.005
G7 L 910.8 007.1 2 LAKE TAHOE AT US COAST GUARD PIER (S-5)																
05/09/73 1155	5050 5050		48.8F 1	7.5		0.36A					0.0008 0.004	-- 0.04	-- 0.044	--	0.0029 --	-- 0.006
08/08/73 0720	5050 5050		19.0C 1	7.9	91 92	0.24A					0.0006 0.002	-- 0.03	-- 0.07	--	0.0011 --	-- 0.008
G7 L 913.5 004.9 LAKE TAHOE AT CARNELIAN BAY - SIERRA BOAT CO (S-14)																
08/08/73 0800	5050 5050		19.0C 1	7.8	91 93	0.12A					0.0003 0.003	-- 0.03	-- 0.077	--	0.0005 --	-- 0.002
G7 L 914.2 002.2 LAKE TAHOE AT TAHOE VISTA (L-7)																
05/02/73 0720	5050 5050		45.4F 1	7.5	85 91	0.27A					0.0000 0.007	-- 0.07	-- 0.084	--	0.0020 --	-- 0.003
G7 L 914.2 002.3 LAKE TAHOE AT KINGS BEACH PIER (S-7)																
05/02/73 0720	5050 5050		7.5C 2	7.5	92 91	0.28A					0.0007 0.006	-- 0.02	-- 0.029	--	0.0036 --	-- 0.007
08/08/73 0850	5050 5050		19.0C 1	7.6	93 93	0.18A					0.0003 0.001	-- 0.04	-- 0.078	--	0.0017 --	-- 0.009
G7 L 914.2 956.6 LAKE TAHOE AT KINGS CASTLE PIER (S-4)																
05/02/73 0840	5050 5050		8.5C 2	7.5	95 93	0.10A					0.0002 0.007	-- 0.03	-- 0.039	--	0.0023 --	-- 0.003
08/08/73 0935	5050 5050		19.5C 1	7.7	91 93	0.19A					0.0004 0.002	-- 0.02	-- 0.054	--	0.0020 --	-- 0.004
G7 L 914.3 956.8 LAKE TAHOE AT INCLINE GUARD STATION (L-4)																
05/02/73 0805	5050 5050		45.6F 1	7.4	82 88	0.42A					0.0003 0.024	-- 0.02	-- 0.041	--	0.0054 --	-- 0.011
G7 3020.01 BURTON CREEK IN STAR HARBOR (T-8)																
05/09/73 1200	5050 5050		40.0F 1	7.2	42 46	3.2 A					0.0005 0.005	-- 0.14	-- 0.145	--	0.017 --	-- 0.019
08/01/73 1130	5050 5050	1.5	16.5C	7.3	96 96	0.46A					0.001 0.003	-- 0.01	-- 0.011	--	0.0213 --	-- 0.022
G7 3050.01 WARD CREEK NEAR MOUTH (T-5)																
05/09/73 1000	5050 5050	20 F	5.0C 1	7.2	44 42	0.75A					0.0009 0.016	-- 0.00	-- 0.003	--	0.013 --	-- 0.014
08/01/73 1150	5050 5050	3.84 5.0	20.5C	7.9	65 65	0.18A					0.0000 0.008	-- 0.03	-- 0.04	--	0.0228 --	-- 0.023
G7 3160.01 MADDEN CREEK NEAR MOUTH (T-10)																
05/09/73 0955	5050 5050	1.20 19 F	39.2F 1	7.2	40 43	0.43A					0.0006 0.066	-- 0.08	-- 0.088	--	0.0095 --	-- 0.010
08/01/73 1110	5050 5050	0.53 2.0	14.8C	7.3	48 48	0.15A					0.0001 0.009	-- 0.10	-- 0.102	--	0.0114 --	-- 0.024
G7 3230.01 THIRD CREEK NEAR MOUTH (T-6)																
05/09/73 1200	5050 5050	10 E	9.5C 1	7.2	49 47	3.00A					0.0007 0.055	-- 0.06	-- 0.094	--	0.043 --	-- 0.052
08/01/73 1030	5050 5050	3.0	15.0C	7.3	68 67	3.5A					0.0000 0.011	-- 0.05	-- 0.055	--	0.0307 --	-- 0.041
G7 3253.01 INCLINE CREEK AT INCLINE VILLAGE (T-2)																
05/09/73 1230	5050 5050	10 F	8.5C 1	7.2	56 55	3.80A					0.0009 0.236	-- 0.09	-- 0.097	--	0.039 --	-- 0.048
08/01/73 1000	5050 5050	3.0	9.0C	7.3	72 65	4.5A					0.0001 0.019	-- 0.13	-- 0.148	--	0.0342 --	-- 0.050
G7 3300.01 GENERAL CREEK NEAR MEEKS BAY (T-3)																
05/09/73 0920	5050 5050	15 F	3.0C 1	6.8	16 16	0.36A					0.0006 0.011	-- 0.13	-- 0.131	--	0.0036 --	-- 0.007
08/01/73 0950	5050 5050	6.77 2.0	14.0C	7.2	56 57	1.2A					0.0000 0.006	-- 0.12	-- 0.125	7	0.0030 --	-- 0.056
G7 3571.01 TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)																
05/09/73 0840	5050 5050	120 E	45.4F 1	7.1	24 24	0.18A					0.0003 0.003	-- 0.00	-- 0.002	--	0.0004 --	-- 0.001
08/01/73 0840	5050 5050	5.0	18.0C	7.0	22 25	0.12A					0.0009 0.024	-- 0.05	-- 0.052	--	0.0041 --	-- 0.010
G7 3679.90 EGGWOOD CREEK AT MOUTH (T-7A)																
05/09/73 0555	5050 5050	8 E	46.3F 1	7.6	93 100	4.1 A					0.0007 0.060	-- 0.02	-- 0.049	--	0.035 --	-- 0.044
08/01/73 0700	5050 5050	1.5	6.5C	8.3	124 98	4.0A					0.0000 0.017	-- 0.17	-- 0.185	--	0.116 --	-- 0.157

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD		NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
				LABORATORY PH	EC	TURB F-CO2	FIELD CACO3	LAB P T	LAB HCO3 CO3	NH3	N NO2 NO3	F ORG U	N F (NH3 + U ORG N)	DIS A.H.P04	F H3P04 U H3P04	F TOT P U TOT P
67 3680.00 EDGEWOOD CREEK AT HIGHWAY 50 (T-7)																
05/09/73 0455	5050 5050	0.97 8 E	40.1F 1		93 89	5.0 A					0.0005 0.135	-- 0.01	-- 0.03A	-- --	0.039 --	-- 0.043
08/01/73 0746	5050 5050		9.5C 2.0	7.2	100 99	0.85 A					0.0008 0.047	-- 0.04	-- 0.05	-- --	0.0380 --	-- 0.041
67 3705.01 UPPER TRUCKEE RIVER NEAR MOUTH (T-1)																
05/09/73 0735	5050 5050		2.5C 40 E	6.8 1	30 30	3.00A A					0.0006 0.038	-- 0.25	-- 0.257	-- --	0.021 --	-- 0.049
08/01/73 0750	5050 5050	0.97 15.0	14.5C 15.0	7.1	64 66	2.4A A					0.0002 0.039	-- 0.15	-- 0.154	-- --	0.0156 --	-- 0.020
67 3810.01 TROUT CREEK NEAR MOUTH (T-9)																
05/09/73 0740	5050 5050	5.26 75 E	37.6F 1	7.0	39 39	4.0 A					0.0003 0.066	-- 0.20	-- 0.211	-- --	0.030 --	-- 0.033
08/01/73 0700	5050 5050	1.42 30.0	14.8C 30.0	7.1	42 42	3.0A A					0.0000 0.023	-- 0.15	-- 0.151	-- --	0.0200 --	-- 0.049

TABLE D-7

PESTICIDES IN SURFACE WATER

Sampler and Lab Agency Codes

5001 - U. S. Bureau of Reclamation
 5050 - Department of Water Resources

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
 EC - Electrical conductance in micromhos at 25° Celsius
 DO - Dissolved oxygen content in milligrams per liter
 PH - Measure of acidity (<7) or alkalinity (>7) of water
 G.H. - Instantaneous gage height in feet above an established datum
 DEP - Depth in feet at which sample was collected
 DISCHARGE - Instantaneous discharge in cubic feet per second

Pesticides

Chlorinated Hydrocarbons

<u>Code</u>	<u>Most Common Name</u>
ATRAZSIMAZ	- Atrazine and/or Simazine
DACTHAL	- Dacthal
DDT	- DDT (Code includes all Isomers; Para Para etc.)
DIELDRIN	- Dieldrin
UNKNOWNNS	- Complex chlorinated compound mixture as (Reported as DDT), one or more
NONE	
DETECTED	- No detectable amount of Chlorinated Hydrocarbons

Organic Phosphorus

DELNAV	- Delnav
DIAZINON	- Diazinon
PHORATE	- Phorate
UNKNOWNNS	- Complex mixture as Parathion (Reported as Parathion), one or more
NONE	
DETECTED	- No detectable amount of organic phosphorus

TABLE D-7 (CONTINUED)

DATE TIME	SAMP LAB	TEMP DD EC	DD PH	G.H. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN NANOGRAMS/LITER			OTHER
					CHLORINATED HYDROCARBON	ORGANIC PHOSPHORUS		
		A0 V 836.3	128.4		NATOMAS EAST MAIN DRAIN AT SACRAMENTO			
11/14/72	5050	52 F	6.7		1700 ATRAZSIMAZ	5 DIELDRIN	60 DIAZINON	75 UNKNOWNNS
0800	5050	135	6.8		60 UNKNOWNNS			
		A0 V 836.4	131.4		NATOMAS MAIN DRAIN TO SACRAMENTO RIVER			
11/14/72	5050	51 F	9.6		340 UNKNOWNNS		NONE DETECTED	
0845	5050	620	7.2					
		A0 V 847.4	135.8		R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL			
11/14/72	5050	51 F	9.0		195 UNKNOWNNS		NONE DETECTED	
0945	5050	475	7.3					
		A0	2112.00		SACRAMENTO RIVER AT ELKHORN FERRY			
11/14/72	5050	51 F	10.6		105 UNKNOWNNS		NONE DETECTED	
0915	5050	153	7.4					
		A0	2170.00		SACRAMENTO RIVER AT FREMONT WEIR, WEST END			
10/18/72	5050	60 F	9.6	18.13	NONE	DETECTED		
1130	5050	184	7.5					
11/14/72	5050	52 F	10.2	20.70	260 UNKNOWNNS		NONE DETECTED	
1200	5050	230	7.4					
12/20/72	5050	44 F	11.3	28.75	NONE	DETECTED		
1145	5050	115	7.3					
01/17/73	5050	48 F	10.6	36.00	NONE	DETECTED		
1100	5050	150	7.3					
02/21/73	5050	10.6C	10.6	34.05	NONE	DETECTED		
1120	5050	169	7.3					
03/21/73	5050	50.8F	10.6	24.06	NONE	DETECTED		
1000	5050	218	7.5					
04/18/73	5050	58.2F	10.1	19.41	25 UNKNOWNNS			
1130	5050	200	7.7					
05/16/73	5050	69.8F	9.3	16.91	15 DACTHAL	70 UNKNOWNNS		
1100	5050	180	7.3					
06/20/73	5050	68 F	9.2	15.37	120 UNKNOWNNS			
1000	5050	70	7.6					
07/18/73	5050	69 F	9.6	16.86	20 UNKNOWNNS			
1030	5050	165	7.6					
08/15/73	5050	70 F	8.4	17.11	NONE	DETECTED		
0915	5050	195	7.6					
09/19/73	5050	65 F	8.6		60 UNKNOWNNS			
0915	5050	170	7.7					
		A0	2230.02		SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN			
11/14/72	5050	10.0C	10.3	23.12	10 UNKNOWNNS		NONE DETECTED	
1205	5050		7.4					
		A0	2420.00		SACRAMENTO RIVER AT COLUSA			
11/14/72	5050	10.0C	10.4	44.56	35 UNKNOWNNS		NONE DETECTED	
1005	5050		7.3					
		A0	2905.00		YOLO BYPASS BELOW SACRAMENTO BYPASS			
11/14/72	5050	53 F	10.9		135 UNKNOWNNS		NONE DETECTED	
1340	5050	600	8.2					
		A0	2926.00		R-D 1500 DRAINAGE TO SACRAMENTO SLOUGH			
11/14/72	5050	11.0C	9.8	11.81	15 UNKNOWNNS		NONE DETECTED	
1240	5050		8.0					
		A0	2933.00		R-D 108 DRAINAGE TO SACRAMENTO RIVER			
11/14/72	5050	10.0C	8.8		15 UNKNOWNNS		NONE DETECTED	
1505	5050		7.8					
		A0	2947.10		COLUSA BASIN DRAIN NEAR KNIGHTS LANDING			
11/14/72	5050	10.0C	8.9	25.08	10 UNKNOWNNS		NONE DETECTED	
1430	5050		7.7					
		A0	2950.00		R-D 787 DRAINAGE TO COLUSA BASIN DRAIN			
11/14/72	5050	11.0C	4.4	19.00	30 UNKNOWNNS		10 DFLNAV	
1415	5050		7.4					
		A0	2955.00		R-D 787 DRAINAGE TO SACRAMENTO RIVER			
11/14/72	5050	11.0C	8.9	18.80	10 UNKNOWNNS		NONE DETECTED	
1535	5050		7.8					
		A0	2963.00		R-D 1660 DRAINAGE TO TISDALE BYPASS			
11/14/72	5050	11.0C	8.5	28.10	30 UNKNOWNNS		NONE DETECTED	
1140	5050		7.9					
		A0	2965.00		R-D 70 DRAINAGE TO SACRAMENTO RIVER			
11/14/72	5050	10.0C	10.0	33.80	35 UNKNOWNNS		5 UNKNOWNNS	
1115	5050		8.0					

TABLE D-7 (CONTINUED)

DATE TIME	SAMP LAB	TEMP EC	DD PH	G.H. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN NANOGRAMS/LITER			OTHER
					CHLORINATED HYDROCARBON	ORGANIC PHOSPHORUS		
	A0	2972.00			RUTTE SLOUGH NEAR MERIDIAN			
11/14/72 1050	5050 5050	10.5C	7.7 7.2	43.85	35 UNKNOWNNS		NONE DETECTED	
	A0	2976.00			COLUSA BASIN DRAIN AT HIGHWAY 20			
11/14/72 0930	5050 5050	10.0C	9.0 7.5	46.16	30 UNKNOWNNS		NONE DETECTED	
	A0	5103.00			FEATHER RIVER AT NICOLAUS			
11/14/72 1030	5050 5050	51 F	11.2 7.2	24.45	95 UNKNOWNNS		NONE DETECTED	
	A1	1020.00			PIT RIVER NEAR MONTGOMERY CREEK			
03/14/73 1040	5050 5050	8.0C	10.5 7.1		NONE DETECTED		NONE DETECTED	
	A1	1680.00			PIT RIVER NEAR CANBY			
03/14/73 1305	5050 5050	4.0C	9.3 7.5	3.41	NONE DETECTED		NONE DETECTED	
	A2	1010.00			SACRAMENTO RIVER AT KESWICK			
11/13/72 1400	5050 5050	11.0C	8.6 7.2	6000	45 UNKNOWNNS		NONE DETECTED	
	A2	1300.00			SACRAMENTO RIVER AT DELTA			
03/13/73 1100	5050 5050	6.0C	11.0 7.3	6.29	NONE DETECTED		NONE DETECTED	
	A2	2150.00			MCCLLOUD RIVER ABOVE SHASTA LAKE			
03/13/73 1000	5050 5050	7.0C	10.5 7.4		NONE DETECTED		NONE DETECTED	
	B0	7020.00			SAN JOAQUIN RIVER NEAR VERNALIS			
11/21/72 1415	5050 5050	12 C	8.9 7.4	12.25	10 DDT		NONE DETECTED	
02/23/73 0750	5050 5050	12 C	8.2 7.4	18.96	NONE DETECTED		NONE DETECTED	
05/01/73 1400	5001 5050	19 C	9.9 7.3		3 10 DACTHAL	10 UNKNOWNNS		
05/17/73 0730	5050 5050	23 C	9.0 7.6	11.82	25 DACTHAL	65 DDT	30 PHORATE	
08/16/73 0830	5050 5050	25 C	9.7 7.7	10.06	100 DDT		NONE DETECTED	
08/28/73 1525	5001 5050	24.0C	9.0 8.4		3 35 DACTHAL	75 UNKNOWNNS		
	B9 D	747.2	118.4		SAN JOAQUIN RIVER AT MOSSDALE BRIDGE			
10/17/72 1000	5050 5050	65 F	7.5 7.3	2.02	5 DACTHAL			
11/16/72 1100	5050 5050	55 F	8.0 7.3	2.14	5 UNKNOWNNS			
12/12/72 1215	5050 5050	42 F	11.4 7.4	2.85	NONE DETECTED			
01/30/73 1300	5050 5050	47 F	10.0 7.5	5.30	NONE DETECTED			
02/15/73 1240	5050 5050	52 F	8.5 7.2	5.53	NONE DETECTED			
03/15/73 0945	5050 5050	53 F	9.6 7.5	5.25	NONE DETECTED			
04/12/73 1330	5050 5050	64 F	10.1 7.6	3.70	25 DACTHAL	45 UNKNOWNNS		
05/08/73 0840	5050 5050	67 F	10.6 7.8	2.26	55 DACTHAL	60 UNKNOWNNS		
06/13/73 1045	5050 5050	67 F	12.6 8.2	2.78	NONE DETECTED			
07/17/73 0940	5050 5050	76 F	15.9 8.8	2.38	160 UNKNOWNNS			
08/20/73 1230	5050 5050	67 F	17.6 8.8	1.30	30 DACTHAL	120 UNKNOWNNS	45 PHORATE	
09/05/73 1045	5050 5050	71 F	8.6 7.8	1.40	40 UNKNOWNNS			
	B9 D	749.8	133.2		WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FORERAY			
05/01/73 1220	5001 5050	19 C	10.1 7.3		3 10 DACTHAL	10 UNKNOWNNS		
08/28/73 1400	5001 5050	23.0C	9.8 8.6		3 10 DACTHAL	15 UNKNOWNNS		
	B9 D	753.5	129.3		MIDDLE RIVER AT BORDEN HIGHWAY			
05/01/73 1005	5001 5050	19 C	7.4 7.1		2 10 UNKNOWNNS			
08/28/73 1220	5001 5050	22.0C	7.7 7.6		3 25 UNKNOWNNS	15 DACTHAL		

TABLE D-7 (CONTINUED)

DATE TIME	SAMP LAB	TEMP EC	DO PH	G.H. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN NANOGRAMS/LITER			OTHER
					CHLORINATED	HYDROCARBON	ORGANIC PHOSPHORUS	
89 D 758.7 122.9 SAN JOAQUIN RIVER AT RUCKLEY COVE								
01/22/73	5001	9	C	8.6	3	NONE	DETECTED	
	1130	5050		6.9				
02/20/73	5001	12	C	8.2	2	NONE	DETECTED	
	1145	5050		7.4				
05/01/73	5001	19	C	8.3	1	5 DACTHAL	10 UNKNOWNNS	
	0900	5050		7.7				
08/28/73	5001	25.0C		7.7	3	30 UNKNOWNNS	20 DACTHAL	
	1120	5050		415 8.3				
89 D 801.1 142.6 BIG BREAK NEAR OAKLEY								
01/15/73	5001	8	C	11.1	3	NONE	DETECTED	
	1335	5050		7.0				
02/14/73	5001	11	C	9.9	3	NONE	DETECTED	
	1600	5050		7.5				
05/08/73	5001	18.0C		8.9	3	NONE	DETECTED	
	1215	5050		260 8.0				
09/04/73	5001	21.0C		7.9	3	20 UNKNOWNNS	10 DACTHAL	
	1230	5050		782 7.9				
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL								
01/16/73	5001	8.0C		10.7	3	NONE	DETECTED	
	1245	5050						
02/14/73	5001	10	C	9.8	3	NONE	DETECTED	
	1515	5050		7.6				
05/08/73	5001	17.0C		9.0	3	NONE	DETECTED	
	1105	5050		615 7.9				
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING								
02/13/73	5001	11.0C		10.4	3	NONE	DETECTED	
	1515	5050		7.8				
05/08/73	5001	19.0C		9.5	3	10 UNKNOWNNS		
	1440	5050		222 8.0				
09/04/73	5001	21.0C		8.2	3	40 UNKNOWNNS	20 DACTHAL	
	1445	5050		455 7.8				
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT								
01/15/73	5001	8.0C		11.2	3	NONE	DETECTED	
	1355	5050		7.0				
02/14/73	5001			9.8	3	NONE	DETECTED	
	1630	5050		7.5				
05/08/73	5001	18.0C		9.2	3	20 DACTHAL	60 UNKNOWNNS	
	1255	5050		235 8.0				
09/04/73	5001	20.0C		7.9	3	50 UNKNOWNNS	30 DACTHAL	
	1305	5050		835 7.9				
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO								
05/10/73	5001	18.0C		9.1	3	10 DACTHAL	20 UNKNOWNNS	
	1110	5050		850 8.0				
09/06/73	5001	20.0C		6.6	3	30 UNKNOWNNS	10 DACTHAL	
	1335	5050		2120 8.0				
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATD POINT								
05/08/73	5001	18.0C		8.4	3	10 DACTHAL	25 UNKNOWNNS	
	1410	5050		205 7.8				
09/04/73	5001	21.0C		8.0	3	30 DACTHAL	50 UNKNOWNNS	
	1415	5050		238 7.9				
89 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON								
05/10/73	5001	18.0C		9.3	3	25 UNKNOWNNS		
	1220	5050		287 8.1				
09/06/73	5001	20.0C		7.1	3	20 UNKNOWNNS		
	1430	5050		354 8.2				
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE								
02/13/73	5001	10	C	10.2	3	NONE	DETECTED	
	1415	5050		7.8				
05/10/73	5001	18.0C		9.4	3	5 DACTHAL	25 UNKNOWNNS	
	1255	5050		190 8.0				
09/06/73	5001	20.0C		7.2	3	20 DACTHAL	40 UNKNOWNNS	
	1500	5050		208 8.1				
89 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON								
01/23/73	5001	8	C	11.4	3	NONE	DETECTED	
	1310	5050		7.1				
02/21/73	5001	10	C	11.0		NONE	DETECTED	
	1330	5050		7.2				
05/02/73	5001	15	C	9.1	3	NONE	DETECTED	
	0810	5050		56 6.5				
08/29/73	5001	22.0C		7.6	3	50 UNKNOWNNS	10 DACTHAL	
	0955	5050		63 7.1				

TABLE D-7 (CONTINUED)

DATE TIME	SAMP LAB	TEMP EC	DD PH	G.H. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN NANOGRAMS/LITER		
					CHLORINATED HYDROCARBON	ORGANIC PHOSPHORUS	OTHER
R9 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING							
10/18/72	5050	59.0F	9.3		NONE	DETECTED	
1150	5050	145	7.3				
11/14/72	5050	53 F	10.2		200	UNKNOWNNS	NONE DETECTED
1440	5050	150	7.2				
12/20/72	5050	45.5F	10.9		NONE	DETECTED	
1310	5050	129	7.3				
01/17/73	5050	50.0F	10.0		NONE	DETECTED	
1240	5050	100	7.2				
02/21/73	5050	49.5F	9.9		NONE	DETECTED	
1210	5050	139	7.3				
03/21/73	5050	52.0F	9.8		NONE	DETECTED	
1230	5050	150	7.3				
04/18/73	5050	59.0F	9.5		20	DACTHAL	50 UNKNOWNNS
1345	5050	155	7.3				
05/02/73	5001	17 C	8.8	3	NONE	DETECTED	
0615	5050	170	6.9				
05/16/73	5050	70.2F	9.0		70	UNKNOWNNS	
0740	5050	180	7.3				
06/20/73	5050	69.5F	8.2		150	UNKNOWNNS	
1035	5050	135	7.3				
07/18/73	5050	21.0C	7.9		10	UNKNOWNNS	15 DACTHAL
0830	5050	125					
08/15/73	5050	73 F	7.5	2	5	UNKNOWNNS	
1330	5050	160	7.4				
08/29/73	5001	20.0C	7.6	3	50	UNKNOWNNS	10 DACTHAL
0755	5050	197	7.8				
09/19/73	5050	69 F	8.8	2	90	UNKNOWNNS	
1215	5050	150	7.5				
G4 1590.01 SUSAN RIVER NEAR LITCHFIELD							
03/14/73	5050	8.0C	9.6		NONE	DETECTED	NONE DETECTED
1600	5050		7.8				
G4 1600.00 SUSAN RIVER AT SUSANVILLE							
03/15/73	5050	0.0C	11.6	2.13	NONE	DETECTED	NONE DETECTED
0805	5050		7.4				
G6 1705.00 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION							
03/15/73	5050	5.0C	10.0	2.79	NONE	DETECTED	NONE DETECTED
1035	5050		7.9				

TABLE D-8

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

AO 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	66	64							NR	NR	NR	NR	54	53	NR	NR	70	68	73	71	73	70	69	67
2	67	65							NR	NR	NR	NR	54	53	NR	NR	69	67	73	70	72	70	68	67
3	67	66							NR	NR	NR	NR	54	53	64	62	69	67	72	70	72	70	68	66
4	67	64							NR	NR	NR	NR	55	54	63	61	70	68	73	70	72	70	69	66
5	67	64							NR	NR	NR	NR	57	55	63	61	71	68	73	71	72	70	68	66
6	66	64							NR	NR	NR	NR	59	56	63	62	72	69	72	70	72	70	68	67
7	66	63							NR	NR	NR	NR	60	58	64	62	72	70	71	69	72	70	69	68
8	65	63							NR	NR	51	49	61	58	65	62	73	71	72	69	72	69	68	67
9	64	63							NR	NR	51	49	60	59	66	64	73	72	73	70	71	69	68	67
0	64	63							NR	NR	52	51	61	59	67	65	73	71	73	70	72	69	68	66
1	63	62							NR	NR	53	51	61	59	67	65	72	70	72	70	72	70	69	67
2	62	60							NR	NR	52	51	62	60	68	66	71	69	72	68	72	70	70	68
3	62	60							NR	NR	52	50	61	60	69	67	71	68	72	70	72	70	69	68
4	61	60							NR	NR	51	49	61	59	70	68	68	67	71	69	73	70	69	68
5	61	60							NR	NR	51	49	61	58	70	68	68	67	71	68	72	70	69	67
6	61	60							NR	NR	52	50	60	59	71	68	68	67	71	68	72	70	68	66
7	NR	NR							NR	NR	52	51	60	57	72	70	67	67	71	68	72	70	68	66
8	NR	NR							NR	NR	53	52	59	57	73	71	67	65	70	68	72	70	67	65
9	NR	NR							NR	NR	53	52	59	58	72	71	69	66	70	68	71	69	67	66
0	NR	NR							NR	NR	53	52	58	56	71	69	70	67	70	68	71	69	68	66
1	NR	NR							NR	NR	52	50	58	56	69	68	71	68	69	67	70	68	67	66
2	NR	NR							NR	NR	50	49	59	57	69	67	71	70	70	67	69	67	67	65
3	NR	NR							NR	NR	50	48	61	59	68	67	70	68	69	67	68	67	65	63
4	NR	NR							51	50	51	50	62	60	68	67	68	67	69	67	68	67	64	62
5	NR	NR							51	50	53	51	64	62	67	66	70	67	70	67	68	66	63	62
6	NR	NR							51	50	55	53	NR	NR	66	65	72	71	71	68	68	66	63	62
7	NR	NR							51	50	56	55	NR	NR	65	64	73	70	72	69	68	65	63	62
8	NR	NR							NR	NR	57	56	NR	NR	67	64	74	72	72	70	67	66	64	62
9	NR	NR									56	55	NR	NR	69	67	74	72	72	70	69	66	64	62
0	NR	NR									55	54	NR	NR	70	68	73	72	72	70	69	67	65	62
1	NR	NR									55	54			70	69			72	70	69	67		
Max	NR		NR		NR		NR		NR		NR		NR		NR		74		73		73		70	
Min	NR		NR		NR		NR		NR		NR		NR		NR		65		67		65		62	
Avg	NR		NR		NR		NR		NR		NR		NR		NR		69		70		70		66	

AO 5165.00 FEATHER RIVER NEAR GRIDLEY
(October 1, 1972, through September 30, 1973)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	63	60	53	52	51	50	NR	NR	46	45	48	47	56	52	63	59	66	62	72	66	73	70	67	64
2	64	59	54	52	51	50	43	42	46	45	48	47	55	51	62	58	66	61	73	68	71	67	68	64
3	64	60	54	52	50	50	43	42	46	45	47	47	56	52	62	58	69	63	73	68	69	65	69	65
4	64	60	56	54	51	48	43	42	46	45	47	46	58	53	60	57	69	65	73	68	69	65	69	65
5	65	61	56	54	49	48	42	41	46	45	47	46	59	54	61	56	69	66	73	69	70	65	68	65
6	65	62	55	54	NR	NR	43	41	46	45	47	46	61	55	61	58	70	66	70	66	70	66	68	65
7	65	62	54	53	NR	NR	42	41	47	45	47	45	60	56	63	59	70	65	70	66	68	65	68	64
8	64	62	54	52	NR	NR	42	41	47	46	48	46	61	56	63	59	71	66	73	67	68	64	66	63
9	62	61	54	52	NR	NR	43	41	47	46	48	46	61	57	64	59	69	65	73	69	67	65	67	63
0	61	60	54	53	NR	NR	43	43	47	46	48	47	62	57	65	59	69	63	74	69	68	65	67	63
1	61	60	54	52	NR	NR	44	43	47	46	49	47	64	59	64	59	69	65	73	70	68	65	67	63
2	61	59	54	53	NR	NR	45	44	46	45	49	47	63	58	65	59	69	64	73	69	70	65	67	64
3	62	59	53	53	NR	NR	46	46	46	45	50	47	60	58	64	60	67	64	72	69	70	67	66	64
4	61	60	53	53	NR	NR	46	45	46	45	50	47	62	57	67	61	66	63	71	67	71	68	65	62
5	61	59	53	53	NR	NR	46	45	47	46	51	48	62	58	67	62	67	63	71	67	70	67	64	61
6	60	59	54	52	NR	NR	47	45	47	46	51	49	60	58	67	62	67	62	73	67	69	66	63	61
7	61	58	53	52	NR	NR	45	44	47	46	52	49	61	58	67	63	68	64	72	68	70	66	63	60
8	61	59	53	52	NR	NR	45	44	48	46	53	50	58	55	66	62	68	64	71	68	69	65	63	60
9	60	58	53	52	NR	NR	45	44	48	46	52	50	57	54	64	60	70	65	70	66	NR	NR	63	60
0	60	58	54	53	NR	NR	45	44	48	46	50	49	56	53	66	61	72	67	69	66	NR	NR	64	61
1	59	57	53	52	NR	NR	45	44	48	46	50	49	57	53	68	64	73	67	70	65	NR	NR	65	61
2	59	57	53	52	NR	NR	45	44	49	47	50	48	59	55	66	64	69	66	72	68	NR	NR	63	61
3	59	57	52	51	NR	NR	46	45	49	47	51	49	60	56	64	61	66	64	71	68	NR	NR	63	60
4	59	57	52	51	NR	NR	46	45	50	48	52	49	NR	NR	61	58	69	64	71	68	NR	NR	63	61
5	58	56	52	51	NR	NR	46	45	50	48	53	51	NR	NR	60	58	70	66	70	68	NR	NR	63	61
6	58	56	51	51	NR	NR	46	45	51	49	54	51	61	58	61	57	72	68	71	67	NR	NR	63	60
7	58	55	52	51	NR	NR	46	45	50	50	56	52	61	58	65	59	73	68	72	67	NR	NR	63	60
8	58	55	52	51	NR	NR	46	45	50	49	55	52	61	57	66	62	72	68	72	68	NR	NR	63	60
9	57	54	52	51	NR	NR	46	45	54	51	54	51	63	58	68	64	70	66	74	69	NR	NR	63	60
0	54	52	51	51	NR	NR	46	45	53	52	53	52	62	59	66	64	70	65	74	70	NR	NR	64	60
1	53	51			NR	NR	47	46	55	52			64	62					75	71	NR	NR		
Max	65		56		NR		NR		51		56		NR		68		73		75		NR		69	
Min	51		51		NR		NR		45		47		NR		56		61		65		NR		60	
Avg	59		53		NR		NR		47		49		NR		63		67		70		NR		64	

NR - No record.

TABLE D-8 (Cont.)

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

AO 5975.00 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	61	58	51	51	47	46	45	44	45	45	48	47	56	53	63	62	66	65	76	71	77	74	70	67
2	61	58	52	51	47	47	44	43	NR	NR	48	47	55	53	62	61	69	65	77	73	74	70	71	68
3	61	60	52	51	47	47	44	43	NR	NR	48	46	56	53	61	60	76	67	76	72	71	68	72	66
4	61	61	53	52	46	46	44	43	45	45	47	46	58	54	61	59	75	69	77	71	71	67	72	68
5	66	61	55	53	46	45	43	43	46	45	47	46	58	57	66	58	74	70	77	71	73	68	70	69
6	64	63	54	53	46	44	43	43	46	46	47	46	60	58	62	59	74	70	71	69	74	70	70	68
7	63	62	54	53	44	43	43	43	46	45	47	45	62	58	65	61	76	70	73	69	71	69	70	67
8	62	61	53	52	43	41	43	43	46	46	48	46	61	59	64	61	73	69	78	71	70	68	67	66
9	61	59	53	52	41	38	44	42	46	46	47	46	63	60	64	61	74	67	76	71	70	68	68	66
10	59	59	53	52	38	38	44	44	47	46	48	47	68	61	63	61	74	67	78	73	70	67	68	67
11	59	59	52	52	37	36	45	44	47	46	48	47	65	62	64	61	72	70	76	72	70	68	70	67
12	59	59	52	51	37	37	46	45	46	46	48	47	64	62	64	60	71	70	79	73	74	68	71	68
13	60	59	51	51	37	35	46	46	46	45	48	47	64	63	66	61	71	69	74	71	74	70	68	67
14	60	59	51	50	37	36	46	46	46	45	49	47	66	62	69	65	69	68	73	70	75	72	66	64
15	60	59	50	50	38	37	46	46	47	46	48	47	63	62	67	65	68	67	73	70	72	70	66	64
16	60	59	50	50	39	38	47	46	47	46	50	48	63	62	67	65	71	67	75	72	71	69	65	63
17	60	59	51	50	42	39	47	45	47	46	52	50	63	61	67	63	72	69	75	73	72	69	65	63
18	60	59	50	50	43	42	46	45	47	46	53	50	60	57	66	62	71	68	73	71	72	68	64	63
19	60	59	51	50	45	43	46	45	48	46	51	50	58	55	66	62	76	70	72	70	72	70	64	63
20	59	58	50	49	47	45	45	44	48	47	50	49	55	54	70	66	77	72	71	69	72	70	65	63
21	58	57	50	49	48	47	45	45	48	47	50	49	57	55	72	69	76	72	72	70	71	70	67	64
22	58	57	49	48	50	49	45	44	49	48	50	49	59	57	70	68	72	70	76	72	70	69	65	64
23	58	57	49	47	50	50	45	44	48	48	50	49	63	58	67	63	72	69	75	70	70	68	65	63
24	59	57	48	47	50	50	45	44	49	48	52	49	62	60	63	61	75	70	75	71	70	68	65	64
25	57	56	48	47	50	50	44	44	50	49	54	51	63	59	61	61	76	70	73	70	72	67	65	64
26	57	56	48	47	50	50	44	44	50	50	54	52	61	59	63	61	75	72	72	70	70	69	65	63
27	56	56	48	47	50	47	44	44	50	49	56	53	61	59	68	62	76	72	73	70	70	69	63	63
28	56	55	48	47	48	47	45	44	49	47	56	53	62	59	70	65	73	72	73	71	73	69	64	62
29	55	54	47	47	47	46	45	44	54	53	68	61	71	66	71	66	72	71	78	73	72	69	64	62
30	54	52	47	47	46	45	45	44	54	53	63	60	69	66	73	70	73	70	78	74	70	68	64	62
31	52	50	45	45	45	45	45	45	55	53	67	65	67	65	67	65	78	75	68	67	68	67	66	62
Max	66		55		50		47		NR		56		68		72		77		79		77		72	
Min	50		47		35		42		NR		45		53		58		65		69		67		62	
Avg	59		50		44		44		NR		49		60		64		71		73		70		66	

AO 5990.00 FEATHER RIVER FISH HATCHERY
(October 1, 1972, through September 30, 1973)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	54	52	54	53	50	49	46	46	45	45	46	46	49	48	53	53	58	56	58	56	59	58	57	56
2	53	52	54	52	49	49	46	46	45	45	46	46	49	48	53	52	57	57	NR	NR	60	58	57	56
3	54	52	54	53	49	49	46	46	45	45	46	46	49	48	53	51	58	57	NR	NR	61	59	57	56
4	54	53	53	52	49	48	46	46	45	45	46	46	49	48	52	52	57	55	NR	NR	60	59	57	54
5	54	53	54	53	48	48	46	46	45	45	46	46	50	49	52	51	58	56	60	54	60	59	56	55
6	57	54	54	52	48	48	46	46	45	45	46	45	51	49	53	51	58	57	NR	NR	60	58	57	54
7	57	55	53	53	48	48	46	45	45	45	45	45	52	50	53	52	59	58	NR	NR	61	59	57	56
8	57	56	53	52	48	48	45	45	45	45	45	45	52	49	53	52	59	58	NR	NR	61	60	58	57
9	56	53	53	53	48	47	45	45	45	45	46	45	51	49	54	52	59	58	61	58	61	59	59	56
10	56	55	53	53	47	46	45	45	45	45	46	46	52	49	54	53	59	58	61	59	62	60	56	53
11	55	52	53	53	46	46	45	45	45	45	46	44	52	50	54	53	60	58	60	58	61	61	54	52
12	52	51	53	53	46	46	45	45	45	44	46	45	51	50	54	53	59	57	59	57	61	61	54	53
13	52	51	53	53	46	46	45	45	44	44	46	46	52	50	54	53	58	57	62	58	62	61	54	53
14	52	51	53	51	46	46	45	45	45	45	47	46	52	50	55	53	58	57	61	59	62	61	54	53
15	52	51	53	52	46	46	45	45	45	45	47	47	52	50	54	53	58	58	61	60	62	59	54	53
16	51	50	53	53	46	46	45	44	45	45	48	47	51	50	54	53	59	58	61	60	60	59	54	53
17	52	51	53	52	46	46	45	44	46	45	47	47	51	50	54	53	59	58	61	60	60	59	55	52
18	52	51	52	52	46	46	45	45	46	45	48	47	51	50	54	54	59	58	62	60	59	58	56	55
19	51	51	52	52	46	46	45	45	46	45	48	47	51	51	54	53	60	57	61	60	60	58	56	53
20	53	51	52	50	46	46	45	45	46	45	47	46	52	51	56	54	59	59	61	60	60	58	55	53
21	53	53	51	50	47	46	45	45	46	46	47	46	53	52	55	53	60	59	61	60	59	58	55	53
22	53	52	51	51	47	47	45	45	46	46	47	46	53	52	55	55	60	59	62	60	59	57	55	54
23	53	51	51	50	47	46	45	45	46	46	46	46	52	51	56	55	59	59	62	59	59	57	56	55
24	52	52	51	50	47	46	45	45	46	46	47	46	52	51	56	54	59	58	63	61	59	59	56	54
25	55	52	51	50	46	46	45	45	46	46	48	47	53	52	55	52	59	57	63	61	61	59	57	55
26	55	52	50	50	46	46	45	45	47	46	48	47	52	52	54	53	60	58	62	61	60	58	58	57
27	54	53	50	50	47	46	45	45	46	45	48	47	52	51	55	53	58	57	63	62	59	56	56	54
28	54	53	50	50	47	47	45	45	46	46	48	47	52	51	56	54	58	57	62	61	58	58	55	54
29	54	53	50	50	47	47	45	45	48	47	48	47	52	52	57	54	58	56	63	60	59	56	55	55
30	53	51	50	50	47	46	45	45	48	48	53	51	57	57	57	57	58	56	62	59	59	57	56	54
31	54	52																						

TABLE D-8 (Cont.)

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

AO 6120.00 YUBA RIVER AT MARYSVILLE
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	56	51	50	48	48	47	47	43	46	43	49	46	51	45	63	53	72	62	NR	NR	79	69	71	63
2	57	51	52	47	47	47	46	43	46	43	50	46	52	45	62	53	73	63	NR	NR	79	68	71	62
3	56	50	50	48	47	47	46	43	45	44	47	46	53	45	62	54	73	64	NR	NR	78	68	71	62
4	57	51	52	50	48	46	46	42	46	44	48	46	54	46	59	53	74	64	NR	NR	77	68	70	62
5	57	50	52	48	48	44	46	42	47	44	50	45	54	47	63	53	75	65	NR	NR	76	67	69	61
6	57	50	52	48	47	44	46	42	46	45	47	45	54	47	63	54	76	66	NR	NR	76	66	69	60
7	56	50	50	48	46	45	45	42	48	46	48	44	55	48	64	55	76	66	NR	NR	75	65	68	60
8	56	50	52	48	46	43	43	42	48	45	50	45	54	48	65	56	76	67	NR	NR	75	65	68	59
9	52	51	50	48	46	42	45	43	48	46	49	45	53	48	67	58	76	67	NR	NR	75	64	69	60
10	53	51	49	49	46	43	45	44	48	47	48	45	57	49	67	59	74	65	NR	NR	75	65	68	60
11	52	51	50	49	46	43	47	44	49	46	49	44	57	49	68	59	73	64	79	70	75	65	67	59
12	53	50	49	47	45	43	48	46	48	46	49	44	56	50	70	60	74	64	79	70	75	64	67	59
13	55	50	49	48	46	43	48	46	48	46	49	44	53	49	70	62	72	65	79	71	75	64	66	59
14	53	50	50	48	44	43	48	46	48	47	50	44	57	49	69	62	72	63	78	69	75	64	66	58
15	54	50	50	49	45	44	48	46	50	46	52	44	57	50	70	62	73	64	77	69	75	64	66	58
16	52	49	51	48	45	44	51	47	49	46	49	45	55	50	71	63	NR	NR	77	69	74	64	65	57
17	55	50	51	48	45	44	48	47	50	45	49	45	55	50	73	64	NR	NR	77	67	74	65	64	58
18	55	50	50	48	47	45	49	47	49	45	50	44	57	48	73	65	NR	NR	77	67	74	64	65	58
19	53	49	50	48	48	47	48	46	50	45	47	45	56	49	71	63	NR	NR	77	66	74	64	65	58
20	54	49	50	47	48	46	48	46	50	45	47	45	57	49	69	60	NR	NR	76	66	73	63	64	59
21	53	49	49	47	48	46	48	46	50	45	45	44	58	50	70	61	NR	NR	77	67	72	63	65	58
22	54	49	50	47	48	46	48	45	49	45	50	44	59	50	70	60	NR	NR	77	68	72	62	60	58
23	54	49	49	46	48	45	47	45	50	45	51	44	60	51	70	60	NR	NR	77	67	71	62	64	58
24	54	49	49	46	49	46	46	45	47	46	51	44	61	51	67	61	NR	NR	78	68	71	63	63	58
25	55	49	48	47	49	45	47	45	48	45	50	45	62	52	68	60	NR	NR	79	69	72	64	63	57
26	54	49	48	47	48	45	47	44	47	45	50	45	63	53	69	59	NR	NR	79	69	72	63	63	56
27	53	48	50	46	46	46	46	43	50	46	51	46	63	53	71	61	NR	NR	78	69	71	63	63	56
28	53	48	48	46	47	45	46	43	50	47	51	45	62	52	73	63	NR	NR	78	68	73	63	63	55
29	52	47	49	47	47	43	46	43	50	45	50	45	62	53	74	64	NR	NR	80	71	73	64	62	55
30	52	47	48	46	47	43	47	45	47	46	47	46	62	53	72	65	NR	NR	78	68	72	64	61	54
31	52	47	47	43	47	43	47	44	47	44	51	47	62	53	68	62	NR	NR	79	69	71	63	61	54
Max	57		52		49		51		50		51		63		74		NR		NR		79		71	
Min	47		46		42		42		43		44		45		53		NR		NR		62		54	
Avg	52		49		46		46		47		47		53		64		NR		NR		69		62	

A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY
(October 1, 1972, through September 30, 1973)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	62	56	54	41	43	34	41	35	46	40	51	48	53	44	62	50	69	61	72	62	76	67	66	59
2	65	57	56	40	41	34	41	35	47	42	52	44	54	44	62	52	69	61	72	62	75	65	65	58
3	65	56	56	44	44	40	42	38	46	44	48	45	56	45	62	54	70	61	73	62	74	64	66	58
4	64	58	54	52	45	39	39	34	47	43	48	45	57	46	56	53	70	61	75	63	74	64	66	59
5	65	56	53	48	39	34	38	32*	49	44	50	42	58	48	59	50	71	61	75	65	73	65	65	59
6	63	56	51	45	38	35	38	32*	48	46	48	43	59	50	61	51	73	62	73	64	73	65	65	58
7	63	56	50	43	37	32*	36	32*	50	46	48	42	59	51	63	54	73	62	73	63	73	64	66	58
8	62	57	50	45	35	32*	36	32*	51	46	53	44	59	49	64	54	75	64	74	64	72	63	70	58
9	60	58	48	43	32*	32*	41	36	50	47	53	45	59	52	65	53	75	65	75	65	71	63	67	59
10	59	57	48	47	32*	32*	43	41	48	45	50	47	60	52	65	56	73	66	77	66	72	62	66	59
11	58	56	49	46	32*	32*	46	43	48	45	51	43	61	52	67	57	72	64	76	66	72	63	68	60
12	58	53	47	44	32*	32*	46	40	49	46	50	43	60	54	68	57	71	63	76	66	73	63	69	61
13	62	53	48	47	32*	32*	50	46	49	46	50	44	55	51	69	60	68	63	76	66	73	62	68	62
14	60	53	50	47	32*	32*	49	45	48	46	50	42	58	50	70	62	67	60	76	67	73	63	67	61
15	60	53	50	48	35	32*	48	46	50	43	51	43	59	52	72	63	67	58	75	67	73	64	65	59
16	57	51	51	45	38	35	49	47	49	43	52	45	57	50	73	63	67	60	75	67	72	63	65	58
17	61	53	50	47	41	36	47	46	50	43	52	48	58	49	73	64	66	59	75	66	70	61	64	58
18	60	49	49	46	46	41	46	45	51	45	52	44	56	46	74	65	67	57	74	67	70	60	64	58
19	58	45	50	46	48	46	45	42	51	44	48	45	57	47	72	65	70	59	73	65	69	60	65	59
20	59	50	48	43	49	46	44	40	51	44	46	44	57	47	69	61	72	60	71	64	69	60	65	61
21	58	48	47	43	49	46	45	42	51	43	45	43	60	46	68	59	74	63	70	62	69	61	65	59
22	59	45	48	44	49	44	44	39	52	45	51	41	61	48	69	60	69	64	72	63	68	60	61	59
23	61	46	46	39	47	43	44	39	51	44	53	43	62	52	70	60	65	61	71	62	65	58	63	59
24	64	45	46	39	48	42	43	39	50	49	54	44	63	52	64	61	73	62	72	62	64	57	61	58
25	60	44	47	38	46	41	44	41	52	47	54	48	64	52	64	59	75	65	73	64	66	59	62	57
26	58	44	47	40	44	40	43	39	49	47	53	49	66	55	65	57	75	67	75	65	66	59	63	57
27	57	41	47	38	44	41	43	38	51	47	54	49	65	55	68	57	75	67	75	66	66	60	63	57
28	55	38	46	38	44	37	44	39	51	47	52	45	63	55	70	59	77	68	75	66	68	59	64	57
29	54	35	47	36	41	37	44	41	51	43	62	54	73	62	73	62	76	68	76	66	68	61	64	58
30	52	33	46	35	41	36	45	41	48	47	61	51	73	66	73	66	73	65	76	67	68	61	64	58
31	54	36	41	35	41	35	46	43	53															

TABLE D-8 (Cont.)

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

B9 D 749.5 133.1 OLD RIVER AT CLIFTON COURT FERRY
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	69	68	58	57	51	51	46	45	49	48	56	55	56	55										
2	69	68	58	57	51	51	45	45	50	49	56	55	56	55										
3	69	68	58	57	51	50	45	45	50	50	56	56	57	56										
4	69	69	59	57	50	50	45	44	51	50	56	55	58	56										
5	69	68	59	58	50	49	45	44	51	51	56	55	59	57										
6	69	68	60	58	49	48	44	44	51	51	56	55	61	58										
7	70	68	59	59	48	47	44	43	52	51	56	55	61	59										
8	69	68	59	58	47	45	44	43	53	52	55	55	62	60										
9	69	68	59	59	45	44	44	43	53	53	56	55	62	61										
10	68	67	59	58	44	43	45	44	54	53	56	55	63	62	N	N	N	N	N	N	N	N	N	N
11	67	67	58	58	43	42	47	44	54	53	56	54	64	62	O	O	O	O	O	O	O	O	O	O
12	67	66	58	57	43	41	50	46	54	53	56	55	64	63										
13	67	66	58	56	42	40	50	47	53	53	55	55	63	63										
14	66	66	56	56	41	40	51	47	53	52	55	54	64	63										
15	66	65	56	55	41	40	51	48	53	51	56	54	63	62	R	R	R	R	R	R	R	R	R	R
16	65	65	55	55	41	40	51	48	53	53	56	55	63	62	E	E	E	E	E	E	E	E	E	E
17	65	64	56	55	42	41	51	49	53	52	56	56	63	62										
18	65	64	56	55	44	42	51	49	53	52	56	55	62	61	C	C	C	C	C	C	C	C	C	C
19	65	64	55	55	45	44	51	50	53	53	56	55	62	61	O	O	O	O	O	O	O	O	O	O
20	65	64	55	54	47	44	50	49	54	53	55	54	61	60										
21	64	63	55	54	49	46	50	49	54	53	55	54	61	60	R	R	R	R	R	R	R	R	R	R
22	64	64	55	54	51	47	49	48	54	54	54	53	62	60										
23	64	63	54	54	52	49	47	46	54	54	55	53	63	61	D	D	D	D	D	D	D	D	D	D
24	64	63	54	53	52	49	47	46	55	54	56	54	65	62										
25	64	63	53	53	52	50	47	46	56	55	56	55	66	63										
26	63	63	53	53	51	48	47	46	56	56	57	55	68	65										
27	63	63	53	51	50	47	47	46	56	55	58	56	69	66										
28	63	62	52	52	50	46	47	46	55	55	58	56	68	65										
29	62	60	52	52	48	46	47	46	57	56	57	56	67	64										
30	60	58	52	51	47	46	47	47	56	55	56	55	67	64										
31	58	57			47	45	48	47	56	55	56	55												
Max	70		60		52		51		56		58		69		NR		NR		NR		NR		NR	
Min	57		51		40		43		48		53		55		NR		NR		NR		NR		NR	
Avg	65		56		46		47		53		55		62		NR		NR		NR		NR		NR	

B9 D 757.8 121.9 STOCKTON SHIP CHANNEL AT BURNS CUTOFF
(October 1, 1972, through September 30, 1973)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	70	69	60	60	51	50	48	47	50	49	55	54	56	55	69	67	73	71	78	77	79	78	76	74
2	71	69	61	59	51	50	48	46	51	49	58	55	57	56	70	67	73	71	78	77	80	79	76	74
3	71	69	60	58	50	50	48	46	51	50	58	57	59	57	69	67	73	71	79	77	80	78	76	75
4	71	69	59	58	50	49	47	46	51	50	57	55	61	58	69	67	74	71	80	77	80	78	76	75
5	71	69	59	57	50	49	46	45	52	51	57	55	61	59	69	67	75	72	70	78	80	78	76	74
6	71	70	58	57	49	48	46	45	52	51	57	55	62	60	68	67	76	73	79	78	79	78	76	74
7	72	70	58	58	49	48	45	44	53	52	57	54	62	60	68	67	78	74	80	78	79	78	76	75
8	72	70	58	57	48	47	45	45	53	53	56	55	63	61	68	67	78	76	79	78	79	77	76	74
9	71	71	58	57	47	46	45	44	54	53	56	55	64	62	69	67	79	77	80	78	78	77	78	75
10	71	70	58	57	46	45	46	45	54	53	57	56	65	63	70	68	79	77	81	79	78	77	77	75
11	70	70	57	57	45	43	48	45	55	52	57	56	65	63	70	68	78	76	83	79	79	77	77	75
12	70	68	57	56	44	43	50	48	54	52	57	56	65	64	71	69	77	75	84	79	79	77	77	75
13	68	67	57	56	43	42	51	49	54	52	57	56	65	64	71	69	75	74	86	80	79	77	77	75
14	68	67	57	56	43	42	51	50	53	52	57	56	65	64	72	70	74	72	85	79	79	77	76	74
15	67	67	56	56	43	42	52	51	53	52	56	55	66	64	73	71	73	72	84	79	80	77	75	74
16	67	66	56	55	42	41	52	51	53	53	58	56	66	64	NR	NR	73	72	86	78	79	77	76	74
17	68	65	56	55	42	41	53	52	54	52	58	57	65	64	NR	NR	73	71	84	77	79	77	76	74
18	68	67	55	55	42	42	53	52	54	53	58	56	64	63	NR	NR	72	71	81	77	79	77	75	74
19	67	67	55	54	43	42	52	51	54	53	57	57	63	62	NR	NR	74	71	83	77	79	77	76	74
20	67	66	55	54	44	43	51	49	54	53	57	56	63	61	NR	NR	75	72	NR	NR	79	77	75	74
21	67	66	55	54	46	44	50	49	55	53	56	55	65	61	NR	NR	77	73	NR	NR	79	77	74	73
22	67	66	54	53	47	46	49	48	55	53	56	53	65	61	NR	NR	77	75	NR	NR	78	77	74	73
23	67	66	54	53	48	47	49	48	56	55	56	53	65	62	NR	NR	76	75	NR	NR	77	76	74	73
24	66	66	53	53	49	47	48	48	56	55	56	54	66	63	NR	NR	77	75	NR	NR	77	76	73	72
25	66	65	53	52	50	48	48	48	57	55	56	55	68	63	NR	NR	78	76	NR	NR	77	75	72	71
26	66	65	52	52	50	49	49	47	57	56	57	55	69	65	69	68	78	76	NR	NR	76	74	72	70
27	66	63	53	52	50	49	49	47	56	56	58	56	68	66	70	68	78	77	79	77	75	74	74	72
28	65	64	53	51	50	49	48	48	56	55	58	57	68	66	72	68	79	77	79	77	75	73	74	72
29	64	62	52	51	49	48	48	48	57	56	57	56	68	66	72	69	79	77	79	77	76	75	75	72
30	62	61	51	51	49	48	48	48	56	56	56	56	68	67	73	70	78	77	79	77	76	75	74	73
31	61	60			49	48	49	48	57	55	57	55			73	71			79	77	76	75		
Max	72		NR		51		53		57		58		69		NR		79		NR		80		78	
Min	60		NR		41		44		49		53		55		NR		71		NR		73		70	
Avg	67		NR		47		48		53		56		63		NR		75		NR		77		74	

NR - No record.

TABLE D-8 (Cont.)

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

B9 D 759.8 125.1 SAN JOAQUIN RIVER AT RINDGE PUMP
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Year	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	71	70	57	55	51	50	45	44					NR	NR	69	66	73	70	79	76	80	76	74	72
2	72	70	56	55	51	50	45	44					55	51	69	66	74	71	79	76	79	76	75	73
3	71	70	57	56	51	50	45	44					57	55	69	66	75	71	80	76	79	76	75	72
4	71	70	57	57	51	49	44	44					58	55	67	66	75	72	81	76	79	76	74	72
5	71	70	57	56	49	48	43	43					60	56	68	65	77	72	81	77	78	76	74	72
6	71	70	57	56	48	47	43	43					61	57	68	65	77	72	78	76	77	75	74	72
7	71	70	57	57	48	47	43	42					62	59	67	66	77	73	78	75	77	75	73	73
8	70	70	57	56	47	46	42	42					63	60	68	65	78	74	78	76	76	75	73	72
9	70	69	56	55	46	44	42	42					62	61	68	66	77	75	80	77	75	74	74	72
10	70	69	56	55	46	44	44	42		N		N	64	62	69	66	76	75	79	77	76	74	73	73
11	69	69	56	55	45	43	44	43		O		O	65	63	70	67	76	74	79	77	78	75	73	72
12	69	68	56	54	44	42	45	44					65	64	70	68	77	74	80	78	78	75	73	72
13	69	67	55	54	44	42	45	44					64	64	70	69	75	73	79	77	77	75	73	72
14	68	67	55	53	43	42	44	44					64	64	72	70	74	72	78	77	79	75	73	72
15	67	66	55	54	42	42	44	43		R		R	64	64	73	70	75	72	77	76	79	75	73	72
16	67	66	54	54	42	41	43	42		E		E	66	64	76	71	75	72	77	75	78	75	74	72
17	66	65	54	53	43	42	43	42					66	65	77	71	74	71	77	75	79	75	73	71
18	66	65	54	53	44	43	43	43		C		C	65	63	79	72	74	71	76	75	78	76	73	71
19	66	65	54	53	45	44	43	43					64	63	76	73	76	71	76	75	78	76	74	72
20	65	65	53	53	45	44	43	43		O		O	64	62	75	72	78	72	76	74	78	75	73	72
21	65	64	54	53	45	44	43	43		R		R	65	62	76	73	79	73	77	74	77	75	73	71
22	64	64	54	53	46	45	43	43					68	63	75	73	76	73	77	74	76	74	72	71
23	64	64	53	52	46	46	43	43		D		D	67	64	74	73	75	74	77	74	74	73	71	71
24	64	63	52	51	47	46	43	43					68	64	73	71	76	73	77	74	74	73	71	70
25	63	62	52	51	47	46	43	43					69	65	71	69	77	74	78	75	74	73	71	69
26	63	62	52	52	47	47	43	43					71	66	69	67	78	76	79	75	74	73	71	69
27	63	61	52	51	47	47	43	43					71	68	70	68	77	76	78	75	74	73	71	70
28	62	60	51	51	47	46	43	43					70	68	72	69	80	76	79	75	75	72	72	70
29	61	58	52	50	46	46	43	43					70	68	73	70	79	76	79	75	76	73	73	70
30	58	54	51	50	46	46	43	43					69	68	73	71	80	76	79	75	75	73	72	70
31	57	54	46	44	43	43	43	43					73	71	73	71	80	76	80	76	75	73	72	70
1	72		57		51		45			NR		NR	71		79		80		81		80		75	
2	54		50		41		42			NR		NR	51		65		70		74		72		69	
3	66		54		46		43			NR		NR	61		70		74		77		76		72	

B9 D 801.1 148.1 SAN JOAQUIN RIVER AT ANTIOCH
(October 1, 1972, through September 30, 1973)

Year	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	69	68	61	60	52	51	48	46	49	47	55	54	58	56	NR	NR	70	68	76	72	75	71	NR	NR
2	69	68	61	60	52	51	47	46	49	48	56	53	57	55	NR	NR	NR	NR	76	72	74	71	NR	NR
3	70	68	61	60	52	51	47	46	49	48	54	53	58	55	NR	NR	NR	NR	76	72	73	71	NR	NR
4	69	68	61	60	52	51	47	46	49	48	54	53	58	56	66	65	NR	NR	77	73	74	71	NR	NR
5	70	68	61	60	51	50	47	45	50	48	54	53	60	57	66	64	NR	NR	78	74	73	71	NR	NR
6	70	69	61	60	51	50	47	45	50	49	54	53	61	58	67	64	NR	NR	78	74	72	70	NR	NR
7	70	69	60	59	51	49	47	45	50	49	54	53	61	59	67	64	NR	NR	78	74	72	70	NR	NR
8	70	69	60	59	51	49	47	45	50	49	54	53	62	59	67	64	NR	NR	77	74	71	69	71	69
9	70	69	59	58	49	48	47	46	50	49	55	53	63	60	67	64	NR	NR	78	74	71	69	71	69
10	70	69	59	58	49	46	47	46	50	49	55	53	65	60	68	64	NR	NR	76	74	72	69	71	69
11	69	69	59	58	48	45	47	46	51	50	55	53	65	61	69	65	NR	NR	76	73	72	70	71	69
12	69	67	59	58	47	44	48	47	52	51	56	52	65	62	70	66	74	72	76	73	73	70	71	68
13	68	67	58	57	46	43	48	47	53	52	56	52	64	62	70	66	73	71	75	73	73	70	70	68
14	68	67	57	56	45	43	48	47	53	52	56	53	63	61	69	66	72	70	73	72	74	70	70	68
15	68	67	57	56	44	43	49	47	53	51	57	54	63	61	69	66	72	70	72	71	74	70	70	68
16	68	67	57	56	45	43	50	48	53	52	57	55	62	61	70	67	71	69	72	70	74	71	70	68
17	68	66	56	55	45	43	50	49	52	52	56	55	61	60	71	67	70	68	72	70	74	71	70	68
18	68	66	55	54	45	44	51	49	52	51	56	54	60	59	73	69	71	68	72	70	74	71	70	68
19	68	66	55	54	46	45	50	49	53	53	55	54	62	59	72	69	72	69	72	69	74	71	70	68
20	67	66	55	54	47	46	50	49	55	53	56	55	61	59	72	69	74	70	70	68	74	71	71	68
21	67	66	55	54	46	45	50	49	55	54	56	54	62	60	72	68	76	71	71	68	73	70	71	69
22	67	66	56	55	47	45	49	49	NR	NR	56	54	NR	NR	72	68	75	72	72	69	72	70	71	69
23	67	66	56	55	46	45	49	48	NR	NR	56	53	NR	NR	72	69	75	72	72	70	71	70	72	69
24	67	66	55	54	47	46	49	48	54	53	57	54	NR	NR	71	69	76	72	74	70	71	69	71	68
25	NR	NR	55	54	47	46	49	48	55	53	57	55	NR	NR	70	68	76	72	74	70	72	69	71	69
26	NR	NR	54	53	48	47	50	48	54	53	58	55	NR	NR	70	67	76	73	74	71	72	69	71	69
27	65	64	54	53	48	47	49	48	54	53	59	56	NR	NR	69	67	76	74	74	72	71	69	72	69
28	65	64	54	53	48	47	50	48	55	53	58	56	NR	NR	NR	NR	76	74	73	71	72	69	72	69
29	65	63	53	52	48	47	49	48			58	56	NR	NR	NR	NR	77	74	75	71	73	70	73	70
30	64	61	52	51	47	46	49	48			58	56	NR	NR	NR	NR	75	73	75	70	73	70	73	70
31	62	60	47	46	47	46	49	47			58	56			70	69			75	70	71	70		
1	NR		61		52		51		NR		59		NR		NR		NR		78		75		NR	
2	NR		51		43		45		NR		52		NR		NR		NR		68		69	</		

TABLE D-8 (Cont.)

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

B9 D 814.5 130.8 SACRAMENTO RIVER AT WALNUT GROVE
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	63	62	54	53	50	50	45	45	47	46	53	52	54	54	63	63	68	68	73	72	74	73	69	69
2	63	62	53	53	50	50	45	45	47	46	53	52	54	54	63	63	68	68	73	72	74	73	69	69
3	63	62	53	53	50	50	45	45	47	46	52	52	55	54	63	63	68	68	73	72	74	74	69	69
4	63	62	54	53	50	49	45	45	47	47	52	52	54	54	63	63	68	68	72	72	74	74	69	69
5	63	63	54	54	49	48	45	44	47	47	52	51	55	54	63	63	69	68	73	72	74	73	69	68
6	63	63	55	54	48	47	44	44	47	47	51	51	56	55	63	63	70	69	73	73	73	73	68	68
7	63	63	55	55	47	46	44	44	48	47	51	51	56	56	63	63	70	70	73	73	73	72	69	68
8	63	63	55	55	46	45	44	44	48	48	51	51	57	56	63	63	71	70	73	72	72	72	69	69
9	63	63	55	55	45	44	44	44	50	48	51	51	57	57	63	63	72	71	72	72	72	71	69	69
10	63	62	55	53	44	42	44	44	50	50	51	51	58	57	64	63	72	72	72	72	71	71	69	69
11	62	61	53	53	42	42	44	44	51	50	51	51	58	58	65	64	72	72	73	72	72	71	69	68
12	61	60	53	52	42	41	44	44	51	50	51	51	59	58	66	65	72	71	73	73	72	72	68	68
13	60	59	52	52	41	41	46	44	51	50	51	51	60	59	67	66	71	71	73	73	72	72	68	68
14	59	59	52	51	41	41	47	46	50	50	51	51	60	59	67	67	71	69	73	73	72	72	68	68
15	59	58	51	51	41	41	47	47	50	50	51	51	60	60	68	67	69	69	73	72	72	72	68	68
16	59	58	51	51	41	41	47	47	50	50	51	51	60	59	69	68	69	68	72	72	72	72	68	68
17	59	58	51	51	42	41	48	47	50	50	51	51	59	59	69	69	68	68	72	71	73	72	68	67
18	59	58	51	51	43	42	48	48	50	50	52	51	59	59	70	69	68	68	71	71	73	73	68	67
19	59	58	51	51	44	43	48	48	50	50	52	52	59	59	71	70	68	68	71	71	73	72	67	67
20	59	59	51	51	45	44	48	47	50	50	52	52	59	59	71	71	69	68	71	71	72	72	68	67
21	59	59	51	51	46	45	47	47	50	50	52	52	59	58	71	70	70	69	71	70	72	71	68	67
22	59	59	51	51	47	46	47	47	51	50	52	51	59	58	70	70	71	70	71	70	71	71	68	67
23	59	59	51	51	48	47	47	47	52	51	51	51	59	58	70	69	71	70	71	71	71	70	67	67
24	59	58	51	50	48	48	47	47	52	52	51	51	59	59	69	68	70	70	71	71	70	69	67	66
25	59	58	50	50	49	48	47	46	52	52	51	51	60	59	68	68	70	70	72	71	69	69	66	65
26	59	59	50	50	49	49	46	46	52	52	52	51	61	60	68	67	71	70	73	72	69	69	65	64
27	59	58	50	50	49	48	46	46	52	52	53	52	62	61	67	66	71	71	73	73	69	69	64	64
28	58	58	50	50	48	48	46	46	52	52	54	53	63	62	66	66	73	71	73	73	69	69	65	64
29	58	56	50	50	48	47	46	46	54	54	54	54	63	63	67	66	73	73	74	73	69	69	65	65
30	56	55	50	50	47	46	46	46	54	54	54	54	63	63	68	67	73	73	74	73	69	69	65	65
31	55	54			46	45	47	46	54	54	54	54	68	68			73	73	73	73	69	69		
Max	63		55		50		48		52		54		63		71		73		74		74		69	
Min	54		50		41		44		46		51		54		63		68		70		69		64	
Avg	60		52		46		46		50		52		58		66		70		72		71		67	

B9 D 802.7 132.7 SACRAMENTO RIVER AT GREENE'S LANDING
(October 1, 1972, through July 31, 1973)*

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	65	63	54	53	51	50	46	45	48	47	52	51	55	53	65	63	69	68	NR	NR				
2	64	63	54	53	50	50	46	44	48	47	53	52	54	53	65	63	70	68	NR	NR				
3	64	63	55	54	50	49	46	45	48	48	53	52	54	53	64	64	69	68	NR	NR				
4	64	63	56	55	50	49	46	45	48	48	52	51	55	52	64	62	70	68	NR	NR				
5	64	63	57	56	49	48	45	44	49	48	52	51	57	54	64	62	71	68	NR	NR				
6	64	63	57	56	48	46	45	44	49	49	52	51	58	55	63	61	72	69	75	73				
7	64	64	58	57	46	45	44	43	50	49	52	51	59	57	64	62	73	70	75	72				
8	64	63	57	56	45	44	44	44	51	50	52	51	60	58	65	62	76	71	74	72				
9	64	63	57	54	43	42	44	44	51	50	52	51	60	58	66	64	77	74	74	72				
10	63	62	54	53	42	41	45	44	52	51	53	52	60	59	67	64	76	74	75	72				
11	63	62	53	53	41	40	45	45	52	51	53	52	61	59	68	66	75	72	75	73				
12	62	61	53	52	41	40	46	45	51	51	52	52	61	60	69	67	73	71	75	73				
13	61	60	52	52	40	39	48	46	51	50	52	52	61	60	70	68	72	70	74	72				
14	60	60	52	51	40	40	49	48	51	50	52	51	61	60	71	69	71	70	74	72				
15	60	59	51	51	41	40	49	48	51	50	52	51	61	60	71	69	70	67	73	72				
16	60	59	52	51	41	40	49	48	51	50	53	51	60	59	72	70	68	67	72	72				
17	60	59	52	51	42	41	50	49	50	49	53	52	60	59	73	70	69	67	72	71				
18	61	59	52	52	43	42	50	49	50	49	54	52	60	58	74	72	69	67	72	69				
19	60	59	52	51	45	43	49	48	50	49	54	53	60	59	73	72	70	67	70	69				
20	60	60	52	51	46	44	48	47	50	49	53	52	59	58	72	71	72	69	70	69				
21	60	59	52	51	48	45	47	47	50	49	52	51	59	57	71	69	73	71	70	70				
22	60	59	52	51	49	48	47	47	51	50	52	51	60	57	70	68	73	71	71	70				
23	60	59	51	51	49	49	47	47	51	50	51	50	61	59	69	68	72	71	71	70				
24	60	60	51	50	50	49	47	46	52	51	52	51	62	60	69	68	71	70	72	71				
25	60	59	50	49	50	50	47	46	51	51	54	52	64	62	69	66	NR	NR	73	71				
26	60	59	50	50	50	49	47	46	51	51	55	53	65	63	67	65	NR	NR	74	72				
27	60	59	51	49	49	49	47	46	51	51	57	55	66	64	67	65	NR	NR	74	73				
28	59	58	51	50	48	47	47	46	52	51	57	56	65	64	68	66	NR	NR	74	73				
29	58	56	51	50	47	47	47	46	57	55	57	55	65	64	70	67	NR	NR	74	73				
30	57	55	51	51	47	46	47	46	56	54	56	54	65	63	71	69	NR	NR	73	72				
31	55	54			46	45	48	47	55	53	55	53	70	69					74	70				
Max	65		58		51		50		52		57		66		74		NR		NR					
Min	54		49		39		43		47		50		52		61		NR		NR					

TABLE D-9

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

October			November			December			January			February			March		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
185	142	155										NR	NR	NR	NR	NR	NR
188	142	161										NR	NR	NR	147	118	130
155	139	145										NR	NR	NR	162	147	156
158	139	145										NR	NR	NR	162	157	160
188	137	155										NR	NR	NR	162	155	160
149	131	142										NR	NR	NR	156	147	152
149	129	142										NR	NR	NR	168	156	162
228	142	169		N			N			N		NR	NR	NR	163	137	154
164	145	149										NR	NR	NR	142	131	140
161	147	153		O			O			O		NR	NR	NR	159	142	146
196	149	169										NR	NR	NR	160	145	154
166	155	158										NR	NR	NR	170	143	154
196	155	166		R			R			R		NR	NR	NR	173	128	137
161	158	158										NR	NR	NR	178	130	145
198	153	171		E			E			E		NR	NR	NR	174	134	144
193	166	171		C			C			C		NR	NR	NR	180	135	149
177	161	169										NR	NR	NR	178	143	155
NR	NR	NR		O			O			O		NR	NR	NR	192	150	167
NR	NR	NR										NR	NR	NR	195	153	174
NR	NR	NR		R			R			R		NR	NR	NR	209	156	186
NR	NR	NR										NR	NR	NR	230	173	200
NR	NR	NR		D			D			D		NR	NR	NR	180	129	156
NR	NR	NR										159	146	148	167	129	140
NR	NR	NR										171	143	154	156	130	140
NR	NR	NR										180	144	154	178	133	150
NR	NR	NR										160	128	149	188	155	173
NR	NR	NR										NR	NR	NR	198	161	184
NR	NR	NR										NR	NR	NR	241	197	216
NR	NR	NR										NR	NR	NR	252	210	223
NR	NR	NR										NR	NR	NR	253	215	230
NR	NR	NR										NR	NR	NR	248	214	223

April			May			June			July			August			September		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
214	185	204	NR	NR	NR	216	206	212	202	182	192	190	163	171	225	196	205
230	185	210	NR	NR	NR	213	206	212	197	173	185	200	168	176	225	205	210
216	196	204	210	149	164	225	205	212	203	176	185	194	165	176	220	210	210
267	204	223	220	154	176	214	202	212	196	180	185	204	166	182	220	200	210
222	210	216	212	172	188	209	200	206	206	176	190	197	171	182	237	200	216
273	204	230	206	174	188	209	200	206	196	168	185	194	171	182	240	213	222
256	210	224	205	175	194	202	188	200	186	153	174	202	170	182	240	205	216
246	204	224	230	170	195	205	186	194	180	153	167	210	170	188	245	213	222
236	202	216	225	185	200	200	168	188	186	164	174	213	177	188	240	210	222
216	185	204	220	185	200	202	171	188	202	170	180	210	178	188	225	200	216
231	173	197	225	186	206	182	160	176	194	162	173	215	182	194	230	205	210
256	173	224	225	190	206	188	165	176	184	166	173	215	182	200	220	210	216
264	210	230	225	190	206	186	161	171	190	160	173	206	188	200	220	206	210
210	191	204	213	194	206	186	161	176	198	162	180	215	188	200	220	210	210
240	189	220	212	194	206	205	160	182	186	162	173	228	191	205	216	206	210
236	188	200	212	200	205	212	159	188	188	172	180	225	193	205	212	206	210
193	186	187	208	197	200	212	176	194	207	170	185	225	190	205	216	206	210
220	180	195	210	190	200	205	183	194	197	165	180	230	192	205	212	200	205
192	180	186	200	184	194	204	182	194	200	165	180	223	194	210	212	182	195
184	176	180	190	183	188	218	177	195	196	168	180	216	197	210	198	182	194
192	174	186	190	185	188	215	183	196	202	175	185	212	194	205	205	175	188
210	181	192	194	188	188	200	185	190	200	176	185	228	194	205	210	175	188
226	186	204	196	188	194	225	180	196	195	184	190	228	194	205	204	175	188
230	181	197	212	195	206	225	190	204	215	180	190	225	190	205	200	174	182
220	175	192	225	205	212	212	190	204	210	174	185	225	190	205	200	165	176
NR	NR	NR	228	208	217	234	196	210	197	175	185	220	194	210	191	156	165
NR	NR	NR	216	202	206	238	196	210	195	166	185	215	200	205	178	154	160
NR	NR	NR	208	201	206	238	196	210	196	166	176	216	196	205	156	150	154
NR	NR	NR	212	205	206	220	188	204	194	166	182	220	195	205	184	147	160
NR	NR	NR	209	200	206	203	184	190	190	170	176	222	195	205	181	145	154
NR	NR	NR	209	202	206				194	170	176	222	195	205			

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 2420.00 SACRAMENTO RIVER AT COLUSA
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25 °C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	135	135	135	425	420	423	146	146	146	162	162	162	152	142	147	149	127	13
2	135	135	135	425	425	425	148	146	147	162	162	162	158	152	155	157	149	15
3	135	135	135	425	415	420	149	147	148	162	162	162	163	158	160	157	155	15
4	135	135	135	415	397	406	150	149	149	162	162	162	163	163	163	159	153	15
5	135	135	135	397	397	397	150	150	150	162	162	162	163	145	154	155	148	15
6	144	135	140	397	375	386	150	148	149	162	162	162	145	130	137	163	156	15
7	145	144	144	375	370	373	152	150	151	162	162	162	138	130	134	163	143	15
8	147	145	146	370	360	365	152	152	152	162	162	162	130	125	128	155	143	14
9	147	147	147	370	360	365	153	152	153	162	158	160	155	130	143	158	155	15
10	NR	NR	NR	370	360	365	153	153	153	158	105	132	155	149	153	162	156	15
11	NR	NR	NR	370	358	363	153	153	153	105	100	102	149	144	146	162	159	16
12	NR	NR	NR	363	173	268	153	153	153	103	101	102	153	149	151	160	150	15
13	NR	NR	NR	180	173	177	153	153	153	110	100	104	153	151	152	158	155	15
14	NR	NR	NR	212	180	196	154	153	153	130	110	120	158	153	155	162	158	16
15	NR	NR	NR	237	180	209	154	154	154	148	130	139	158	146	152	168	162	16
16	NR	NR	NR	282	237	260	154	154	154	153	142	150	NR	NR	NR	175	167	17
17	NR	NR	NR	324	282	303	154	154	154	142	115	129	NR	NR	NR	179	175	17
18	NR	NR	NR	346	324	335	154	112	133	125	115	120	NR	NR	NR	180	179	18
19	202	145	174	362	346	354	115	112	114	125	125	125	NR	NR	NR	185	180	18
20	250	202	226	370	362	366	117	115	115	141	125	133	NR	NR	NR	185	180	18
21	310	250	280	362	143	143	132	117	125	150	141	146	NR	NR	NR	180	148	16
22	340	310	325	142	142	142	144	132	138	152	150	151	167	167	167	155	152	15
23	352	340	346	142	142	142	145	144	145	155	152	154	167	167	167	156	150	15
24	368	352	359	145	142	142	144	135	138	155	155	155	168	168	168	176	156	16
25	368	365	367	145	144	145	147	142	144	157	155	156	170	167	169	185	176	17
26	365	362	364	145	146	146	148	147	148	160	157	159	169	153	158	187	185	18
27	365	362	364	146	146	146	155	148	153	160	160	160	160	151	156	185	183	18
28	387	365	376	146	146	146	157	155	156	167	160	163	162	140	154	183	183	18
29	400	387	394	146	146	146	161	157	159	172	167	170	172	167	170	184	182	18
30	410	400	405	146	146	146	161	161	161	172	147	159	172	147	159	182	180	18
31	420	410	415				162	161	162	147	140	142				180	177	17

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	177	170	173	152	150	151	150	150	150	147	143	145	148	147	147	145	145	14
2	176	170	173	153	152	153	150	150	150	147	147	147	150	148	149	145	145	14
3	176	176	176	157	153	155	154	150	152	148	147	147	150	150	150	146	145	14
4	177	176	176	164	157	160	155	154	155	150	148	149	150	150	150	148	146	14
5	179	177	178	164	164	164	155	155	155	151	150	150	150	150	150	150	148	14
6	180	178	179	164	155	160	155	154	154	150	150	150	150	146	148	150	150	15
7	180	180	180	155	154	154	154	154	154	163	150	155	148	147	148	150	150	15
8	180	178	178	154	154	154	154	154	154	172	148	156	147	147	147	150	150	15
9	178	176	177	155	152	154	155	154	155	149	148	149	147	147	147	151	150	15
10	176	174	175	158	154	156	155	155	155	150	149	150	147	147	147	152	151	15
11	174	173	173	158	158	158	155	155	155	150	150	150	147	147	147	152	152	15
12	173	170	172	158	158	158	155	154	154	152	150	151	154	147	151	153	152	15
13	170	170	170	158	156	157	154	154	154	152	152	152	155	148	149	153	153	15
14	171	166	169	157	154	155	154	154	154	152	152	152	155	123	139	153	153	15
15	168	166	167	154	152	153	154	153	153	152	152	152	123	123	123	154	153	15
16	170	168	169	152	150	150	153	152	152	152	152	152	123	123	123	153	153	15
17	170	168	169	150	146	148	152	150	150	152	152	152	124	123	124	155	125	14
18	168	168	168	146	145	145	150	150	150	154	152	154	125	124	125	128	126	12
19	168	166	167	145	145	145	150	150	150	154	154	154	125	125	125	134	127	13
20	168	166	167	146	145	146	150	150	150	154	153	154	125	125	125	137	134	13
21	170	168	169	146	146	146	150	150	150	153	143	148	126	125	126	142	135	13
22	170	168	169	148	146	147	150	150	150	144	143	143	127	126	127	266	142	22
23	168	168	168	150	148	149	NR	NR	NR	145	144	144	129	127	129	302	226	26
24	170	168	169	150	150	150	NR	NR	NR	145	145	145	132	130	131	240	124	16
25	168	168	168	150	148	149	NR	NR	NR	145	145	145	135	132	133	144	127	13
26	168	165	166	148	146	147	NR	NR	NR	146	145	145	136	135	136	132	127	13
27	165	160	162	148	146	147	138	135	137	147	146	146	137	136	137	137	128	13
28	160	158	159	147	143	145	140	138	139	147	147	147	139	137	138	140	136	13
29	157	155	156	148	147	147	137	137	137	147	147	147	140	139	140	140	140	14
30	155	152	154	149	148	149	143	135	139	147	147	147	142	140	141	142	138	14
31				150	149	150				148	147	147	145	142	144			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

October			November			December			January			February			March		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
560	560	560	NR	NR	NR	1100	1060	1080	NR	NR	NR	NR	NR	NR	NR	NR	NR
560	560	560	NR	NR	NR	1120	1110	1120	1200	1150	1175	NR	NR	NR	NR	NR	NR
560	560	560	NR	NR	NR	1120	1120	1120	1200	1200	1200	NR	NR	NR	NR	NR	NR
590	560	575	NR	NR	NR	1120	1120	1120	1200	1200	1200	NR	NR	NR	NR	NR	NR
620	590	605	NR	NR	NR	1120	1120	1120	1240	1200	1220	NR	NR	NR	NR	NR	NR
640	625	635	NR	NR	NR	1170	1080	1140	1240	1240	1240	NR	NR	NR	NR	NR	NR
640	640	640	NR	NR	NR	1170	1170	1170	1240	1240	1240	NR	NR	NR	NR	NR	NR
660	640	650	NR	NR	NR	1170	1170	1170	1240	1240	1240	NR	NR	NR	NR	NR	NR
660	660	660	NR	NR	NR	1170	1170	1170	1240	1240	1240	NR	NR	NR	NR	NR	NR
660	660	660	NR	NR	NR	1170	1170	1170	1240	1240	1240	NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR	1170	1170	1170	1240	1070	1155	NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR	1170	1170	1170	1070	765	910	NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR	1170	1170	1170	820	400	610	NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR	1200	1170	1185	400	400	400	NR	NR	NR	NR	NR	NR
NR	NR	NR	NR	NR	NR	1220	1200	1210	400	300	350	NR	NR	NR	NR	NR	NR
NR	NR	NR	700	690	700	1220	1220	1220	330	280	300	NR	NR	NR	NR	NR	NR
NR	NR	NR	690	660	685	1240	1220	1230	340	325	337	NR	NR	NR	NR	NR	NR
NR	NR	NR	660	584	590	1240	1240	1240	340	340	340	NR	NR	NR	NR	NR	NR
NR	NR	NR	585	540	562	1240	960	1100	340	340	340	NR	NR	NR	NR	NR	NR
NR	NR	NR	612	540	600	960	650	750	340	340	340	NR	NR	NR	NR	NR	NR
NR	NR	NR	660	612	645	650	360	490	340	340	340	430	405	416	NR	NR	NR
NR	NR	NR	700	660	680	458	300	400	340	340	340	460	430	440	NR	NR	NR
NR	NR	NR	740	700	725	535	458	520	340	340	340	500	460	480	NR	NR	NR
NR	NR	NR	790	740	780	615	535	595	NR	NR	NR	566	500	540	NR	NR	NR
NR	NR	NR	830	790	800	780	615	770	NR	NR	NR	680	566	625	NR	NR	NR
NR	NR	NR	895	830	870	840	780	820	NR	NR	NR	680	560	625	NR	NR	NR
NR	NR	NR	930	890	900	940	840	890	NR	NR	NR	560	480	520	NR	NR	NR
NR	NR	NR	960	930	945	1025	940	985	NR	NR	NR	480	425	450	NR	NR	NR
NR	NR	NR	1000	960	980	1040	1025	1037	NR	NR	NR	NR	NR	NR	1100	1100	1100
NR	NR	NR	1060	1000	1050	1130	1040	1085	NR	NR	NR	NR	NR	NR	1100	1100	1100
NR	NR	NR				1150	1125	1147	NR	NR	NR	NR	NR	NR	1100	1100	1100

April			May			June			July			August			September		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1100	1100	1100	630	620	625												
1100	1100	1100	640	640	640												
1150	1100	1150	660	640	650												
1150	1150	1150	660	660	660												
1150	1140	1150	660	660	660												
1140	1140	1140	710	660	685												
1140	1140	1140	740	710	725												
1140	1140	1140	750	740	745		N			N			N			N	
1140	1140	1140	755	750	755												
1160	1140	1150	755	755	755		O			O			O			O	
1160	1160	1160	755	680	710												
1160	1160	1160	680	680	680												
1160	1140	1150	680	680	680		R			R			R			R	
1140	820	980	NR	NR	NR												
820	820	820	NR	NR	NR		E			E			E			E	
820	820	820	NR	NR	NR												
820	740	780	NR	NR	NR		C			C			C			C	
740	710	730	NR	NR	NR												
710	680	710	NR	NR	NR		O			O			O			O	
680	680	680	NR	NR	NR												
735	680	702	NR	NR	NR		R			R			R			R	
735	665	697	NR	NR	NR												
665	665	665	NR	NR	NR		D			D			D			D	
670	665	670	NR	NR	NR												
670	600	640	NR	NR	NR												
600	570	595	NR	NR	NR												
578	578	578	NR	NR	NR												
580	578	580	NR	NR	NR												
610	580	595	NR	NR	NR												
620	610	615	NR	NR	NR												
NR	NR	NR	NR	NR	NR												

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 6120.00 YUBA RIVER AT MARYSVILLE

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25 °C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	78	77	78	73	73	73	73	72	73	80	79	80	74	73	74	71	69	71
2	78	77	78	73	72	73	73	72	72	80	79	79	74	73	74	71	65	68
3	78	77	77	73	72	72	73	72	72	79	78	79	74	74	74	71	66	68
4	77	77	77	75	72	74	73	72	72	79	78	79	77	69	72	71	66	68
5	77	76	77	74	73	73	73	71	72	79	78	79	73	72	72	79	67	68
6	77	75	76	73	73	73	73	70	72	78	78	78	77	73	75	93	71	71
7	77	75	76	74	72	73	73	73	73	78	78	78	76	71	74	96	92	71
8	77	76	76	75	74	74	73	73	73	81	76	78	73	71	72	98	93	71
9	76	75	76	74	73	73	74	73	73	84	81	83	73	72	72	96	92	71
10	77	75	76	76	73	74	74	73	74	82	79	80	77	68	72	96	86	71
11	79	77	78	81	76	78	75	74	74	84	68	79	70	67	69	103	91	71
12	79	78	78	79	74	77	76	74	75	74	64	69	71	69	70	108	68	71
13	78	77	77	74	74	74	76	75	75	70	65	68	70	68	70	69	68	71
14	77	76	77	85	74	80	76	75	76	74	64	70	74	67	71	70	69	71
15	77	76	77	86	76	80	77	76	76	66	61	64	69	67	68	81	70	71
16	77	77	77	82	77	79	77	76	77	131	57	74	70	68	69	81	69	71
17	77	76	77	78	76	77	88	76	82	61	58	60	70	68	69	70	69	71
18	77	76	76	76	74	75	83	80	82	62	55	59	70	68	69	70	69	71
19	77	76	76	76	74	75	86	79	82	56	55	56	70	69	69	70	69	71
20	76	75	75	75	74	75	81	78	80	56	55	55	70	70	70	71	70	71
21	76	74	75	74	74	74	78	78	78	56	55	55	70	70	70	72	69	71
22	75	74	75	74	74	74	78	76	77	55	55	55	70	70	70	72	70	71
23	75	74	74	74	74	74	76	71	74	61	55	58	71	70	70	70	69	71
24	75	74	75	74	73	74	75	71	73	76	61	67	76	70	72	70	69	71
25	75	74	74	73	73	73	74	73	73	90	75	84	73	70	71	71	69	71
26	74	73	73	73	72	73	75	74	74	77	64	70	74	70	71	71	70	71
27	74	72	73	73	72	73	76	74	75	66	65	66	74	60	70	72	70	71
28	74	73	74	73	72	72	78	75	77	69	66	68	69	60	66	72	70	71
29	74	73	73	73	71	72	79	78	78	70	69	69				72	70	71
30	74	73	73	73	72	72	79	79	79	75	69	71				72	71	71
31	73	73	73				80	79	79	74	71	73				74	71	71

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	71	70	70	74	72	73	80	79	80	NR	NR	NR	72	71	71	74	73	73
2	71	70	70	73	71	72	80	78	79	NR	NR	NR	72	71	72	73	72	73
3	71	69	70	72	71	72	78	77	78	NR	NR	NR	72	71	72	73	72	73
4	71	70	70	72	70	71	78	77	78	NR	NR	NR	72	72	72	73	72	73
5	71	69	70	74	71	72	78	77	78	NR	NR	NR	73	72	72	73	72	73
6	71	69	70	72	71	72	78	76	77	NR	NR	NR	73	72	72	73	72	73
7	71	70	70	78	70	72	78	76	77	NR	NR	NR	72	71	71	73	72	72
8	71	69	70	86	68	84	77	75	76	NR	NR	NR	72	71	71	72	71	72
9	74	70	71	85	83	84	77	74	75	NR	NR	NR	72	71	72	72	71	71
10	74	72	73	92	83	85	76	74	75	NR	NR	NR	72	71	71	72	70	71
11	76	73	74	86	84	85	76	75	75	77	77	77	72	71	71	72	70	71
12	74	73	73	91	84	86	76	74	75	77	77	77	72	70	71	73	72	73
13	73	73	73	86	84	85	74	73	73	77	77	77	71	70	70	73	72	72
14	74	73	73	88	84	85	73	73	73	77	77	77	71	70	70	73	72	72
15	73	72	73	85	84	84	73	72	72	77	76	77	71	70	71	73	72	72
16	73	73	73	86	85	85	NR	NR	NR	77	74	77	71	70	71	73	71	72
17	73	72	73	86	84	85	NR	NR	NR	74	69	70	74	71	73	73	71	72
18	73	72	72	85	83	84	NR	NR	NR	70	70	70	74	73	73	73	71	72
19	73	72	73	85	83	84	NR	NR	NR	70	70	70	74	73	73	72	71	72
20	74	72	73	85	83	84	NR	NR	NR	70	70	70	73	70	71	73	71	72
21	73	72	72	84	82	83	NR	NR	NR	70	70	70	72	71	71	73	73	73
22	73	71	72	84	78	80	NR	NR	NR	70	70	70	72	71	72	73	72	73
23	73	71	72	80	78	79	NR	NR	NR	70	70	70	72	71	72	73	73	73
24	75	72	73	80	79	79	NR	NR	NR	70	70	70	72	71	72	73	73	73
25	73	72	72	80	78	79	NR	NR	NR	71	70	70	72	72	72	73	73	73
26	73	71	72	79	78	78	NR	NR	NR	71	70	70	73	72	72	74	73	73
27	73	72	73	79	78	79	NR	NR	NR	71	70	71	73	72	73	74	73	74
28	73	72	73	79	78	79	NR	NR	NR	85	60	75	73	72	72	75	74	74
29	73	72	72	79	78	79	NR	NR	NR	86	85	85	73	73	73	75	74	75
30	74	72	73	79	78	78	NR	NR	NR	86	70	72	73	73	73	76	75	75
31				80	79	79				72	71	71	74	73	73			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 6550.00 BEAR RIVER NEAR WHEATLAND
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
NR	NR	NR	132	128	130	111	110	111	114	108	114	68	68	68	71	68	69	
NR	NR	NR	130	129	129	110	109	110	108	91	106	67	67	67	73	71	72	
NR	NR	NR	129	123	126	109	109	109	107	91	97	68	67	67	74	73	74	
156	144	152	124	121	122	111	109	110	106	102	104	68	67	68	74	74	74	
160	150	154	125	124	125	113	110	111	106	98	104	67	67	67	74	74	74	
160	154	158	125	124	125	115	113	114	98	96	97	68	67	67	75	74	75	
162	154	156	124	121	122	115	115	115	96	96	96	68	67	68	75	75	75	
162	148	154	121	121	121	115	115	115	96	90	93	68	68	68	75	75	75	
NR	NR	NR	121	117	120	115	113	114	90	86	88	70	68	69	75	75	75	
NR	NR	NR	117	113	115	113	112	113	89	87	88	69	68	68	77	75	76	
NR	NR	NR	115	113	114	112	111	112	108	85	89	91	68	82	76	76	76	
144	116	126	120	115	118	111	111	111	86	84	84	92	70	84	76	76	76	
140	116	130	120	118	119	111	111	111	84	81	82	82	70	76	76	76	76	
140	134	138	124	117	119	111	111	111	82	77	81	85	80	81	76	76	76	
134	130	132	124	118	122	111	110	111	77	71	75	86	83	84	77	76	76	
138	138	134	129	104	112	112	109	111	89	70	79	86	84	85	79	77	78	
152	138	148	126	116	120	116	98	105	92	89	91	88	86	87	80	79	79	
154	150	152	130	126	128	115	100	110	94	92	93	88	73	81	80	79	79	
164	152	156	132	130	131	116	84	97	94	93	94	73	72	72	81	79	80	
164	160	162	133	132	133	120	107	115	95	93	95	72	72	72	81	81	81	
162	158	160	133	132	133	126	119	123	98	95	97	72	72	72	81	81	81	
166	160	162	133	131	132	128	125	127	98	91	94	72	72	72	81	80	80	
180	166	172	132	127	130	129	127	128	95	91	94	72	72	72	80	79	80	
188	176	182	127	125	126	128	126	127	93	69	84	72	72	72	80	80	80	
190	180	186	125	125	125	128	127	128	70	69	70	72	72	72	82	80	81	
180	154	162	125	122	123	127	123	125	70	69	69	74	71	72	83	82	82	
164	154	160	122	120	121	123	121	122	70	69	69	72	65	70	82	82	82	
154	140	146	121	118	120	121	119	120	70	69	69	68	68	68	82	82	82	
140	134	138	118	115	116	119	118	119	70	69	69	82	82	82	82	82	82	
136	130	132	115	111	113	118	116	117	70	68	69	85	82	83	85	82	83	
132	128	130	116	114	116	68	68	68	68	68	68	84	84	84	84	84	84	

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
84	84	84	93	88	91	108	100	103	157	152	155	148	143	146				
84	84	84	92	90	91	101	100	100	160	156	158	150	148	150				
84	83	83	97	90	94	102	100	101	160	154	156	150	149	150				
84	83	84	95	94	95	114	102	110	155	148	152	149	146	148				
84	83	84	96	90	93	125	111	115	149	147	148	148	146	146				
85	84	84	91	89	90	140	125	129	151	147	150	152	148	150				
86	84	85	90	89	90	153	109	135	155	149	153	151	149	150				
85	84	84	91	90	90	119	109	114	158	153	155	149	147	148				
86	84	85	100	91	95	151	113	132	158	155	157	147	132	135				
86	86	86	101	96	99	147	116	122	157	155	156	144	132	140			N	
87	86	86	97	95	96	150	117	132	156	154	154	NR	NR	NR			O	
88	87	88	96	95	96	155	150	153	156	154	155	NR	NR	NR				
88	88	88	96	96	96	157	154	157	156	155	155	NR	NR	NR				
88	87	88	100	96	97	157	154	155	161	156	159	NR	NR	NR				
87	87	87	124	100	112	158	154	157	161	145	148	NR	NR	NR			R	
87	87	87	128	123	127	159	158	158	148	145	146	NR	NR	NR			E	
87	87	87	127	121	123	159	152	155	147	145	146	NR	NR	NR				
87	86	86	135	125	129	152	148	150	149	147	148	NR	NR	NR			C	
86	86	86	128	95	106	155	148	153	154	149	152	NR	NR	NR				
86	86	86	98	95	97	159	155	157	154	150	151	NR	NR	NR			O	
86	85	85	105	98	103	157	157	157	152	150	151	NR	NR	NR			R	
100	85	89	108	105	107	157	153	154	155	152	154	NR	NR	NR				
88	86	87	107	103	106	155	153	155	156	155	156	NR	NR	NR			D	
87	86	86	103	99	102	159	153	155	156	155	156	NR	NR	NR				
86	86	86	99	93	96	154	150	151	155	155	155	NR	NR	NR				
86	86	86	98	94	97	155	149	151	155	148	150	NR	NR	NR				
86	86	86	98	97	97	154	150	153	150	148	149	NR	NR	NR				
86	85	86	97	96	97	155	154	154	148	135	139	NR	NR	NR				
86	85	86	101	97	100	155	144	147	140	135	138	NR	NR	NR				
88	86	87	104	101	103	154	144	151	138	136	137	NR	NR	NR				
			109	103	108				148	136	143	NR	NR	NR				

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 7140.10 AMERICAN RIVER AT SACRAMENTO WATER PLANT

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25 °C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	58	54	56	59	55	58	63	60	62	58	56	57	67	63	63	70	69	70
2	59	56	58	59	54	57	63	59	62	58	55	56	64	62	63	70	69	69
3	59	56	58	59	55	58	63	59	61	58	56	57	63	62	62	70	70	70
4	59	56	58	62	56	59	63	59	61	61	58	59	64	63	63	70	70	70
5	60	56	59	65	56	59	61	58	60	61	58	60	64	63	64	70	70	70
6	60	56	59	62	56	59	63	59	61	63	56	58	64	62	63	71	70	70
7	60	56	59	61	57	59	62	58	60	59	55	57	64	63	63	71	71	70
8	60	55	58	60	56	58	61	58	60	59	55	57	64	64	64	71	70	70
9	60	56	58	60	55	58	61	57	59	60	55	58	64	63	64	71	71	70
10	60	55	58	60	55	58	61	57	59	60	57	58	64	63	63	71	70	70
11	58	54	56	61	57	59	60	56	58	62	59	60	65	64	64	71	70	70
12	58	54	56	61	56	59	59	56	58	63	58	60	65	64	64	70	70	70
13	58	54	56	63	58	61	58	55	57	59	53	55	64	63	63	70	69	69
14	57	52	55	65	62	64	58	56	57	55	53	53	63	62	62	69	69	69
15	57	54	56	66	61	63	58	56	57	57	55	56	63	62	63	70	69	69
16	57	53	55	64	59	61	60	56	58	59	57	58	64	63	63	71	70	70
17	56	52	55	60	58	59	61	58	59	59	57	58	65	64	64	73	70	70
18	56	52	55	60	58	59	61	57	60	57	56	57	65	65	65	73	70	70
19	56	52	54	60	57	59	60	59	60	57	56	56	67	65	66	72	70	70
20	56	53	55	60	58	59	61	58	60	56	55	56	67	67	67	72	70	70
21	57	53	56	60	58	59	61	57	59	57	56	56	67	67	67	72	70	70
22	59	54	57	60	58	59	58	55	57	57	57	57	67	67	67	72	70	70
23	59	54	57	62	58	60	62	58	60	58	57	57	68	67	67	72	71	70
24	60	54	57	63	60	61	62	60	61	59	58	58	69	68	68	72	70	70
25	58	54	56	64	60	62	61	58	59	60	59	59	69	69	69	73	71	70
26	59	55	57	64	62	63	59	56	57	61	60	60	69	68	68	73	72	70
27	59	54	57	64	61	63	58	56	57	62	61	61	69	66	68	73	71	70
28	60	54	57	64	60	62	60	58	59	62	61	62	70	68	69	73	72	70
29	60	54	58	64	60	62	60	57	59	63	62	62				75	72	70
30	60	55	58	63	60	62	58	55	57	63	62	62				76	74	70
31	60	55	58				58	55	57	63	62	62				77	74	70

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	77	74	76	77	74	76	63	61	62	56	54	55	60	56	58	60	56	58
2	77	74	76	77	74	75	62	60	61	56	54	55	60	56	58	60	55	58
3	77	74	75	76	73	75	62	59	61	56	54	55	60	56	58	63	55	58
4	76	73	75	75	73	74	61	59	60	56	53	55	61	56	59	63	56	60
5	76	73	75	76	72	75	60	58	59	56	54	55	61	55	59	61	55	58
6	75	73	74	76	71	74	60	58	59	56	54	55	61	56	59	61	55	58
7	76	73	75	75	71	73	59	57	58	55	53	54	61	56	59	59	55	57
8	76	73	75	74	70	72	59	57	58	55	53	54	61	57	59	60	54	57
9	77	74	75	74	70	72	59	57	58	55	53	54	61	57	59	61	54	58
10	77	73	75	73	70	72	59	56	58	54	53	54	61	57	59	59	53	57
11	77	74	76	73	70	72	58	56	57	54	53	54	62	57	60	59	54	57
12	77	74	75	74	69	72	58	56	57	55	53	54	62	57	60	62	56	58
13	77	74	76	74	69	72	57	56	56	55	53	54	63	57	60	62	54	57
14	77	74	76	72	69	71	57	55	56	55	53	54	63	58	61	58	53	56
15	77	74	76	73	69	71	57	55	56	55	53	54	62	57	60	59	53	57
16	77	75	76	72	69	71	58	56	57	56	53	55	61	57	59	59	53	57
17	77	74	75	72	69	71	58	56	57	56	53	55	61	56	59	60	54	57
18	76	73	75	71	68	70	58	56	57	56	54	55	62	56	60	59	53	57
19	76	74	75	71	68	70	59	56	57	58	55	56	61	56	59	58	54	56
20	76	74	75	71	67	69	58	55	57	58	55	57	61	57	60	60	54	57
21	76	73	75	71	67	69	57	55	56	61	56	58	64	58	61	59	54	57
22	77	73	75	71	67	69	57	55	56	61	56	59	65	59	62	58	53	57
23	77	73	75	69	65	67	57	54	56	61	57	60	66	58	62	61	54	58
24	77	74	76	67	65	66	57	55	56	62	57	59	64	57	60	59	54	57
25	77	74	75	67	64	66	57	55	56	60	57	59	61	56	59	58	54	56
26	77	74	76	67	64	66	58	55	56	60	57	59	62	56	59	59	54	57
27	77	74	75	66	63	65	56	54	55	61	57	59	62	57	60	58	54	56
28	76	73	75	66	63	64	56	55	56	60	56	59	62	57	60	59	55	57
29	76	73	75	66	63	64	57	54	56	61	56	59	63	58	61	59	54	57
30	77	73	75	64	62	63	57	54	56	61	57	59	62	57	60	59	53	57
31				64	61	63				61	57	59						

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

October			November			December			January			February			March		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
118	112	115	171	146	156	174	156	166	151	146	149	129	105	115	110	93	105
117	110	115	172	143	160	174	157	165	152	147	150	135	127	132	115	93	104
118	110	115	166	146	154	161	154	159	153	149	151	186	135	146	121	73	110
117	110	114	148	119	129	151	135	144	151	147	150	179	72	104	190	80	140
117	108	113	141	129	137	143	138	140	149	145	147	108	91	96	122	116	118
116	105	111	147	135	142	142	133	137	150	146	148	140	108	116	181	99	135
107	100	104	147	117	138	145	139	143	153	145	150	188	104	158	167	139	150
105	100	103	143	119	134	151	144	145	152	117	144	146	104	136	136	121	130
107	104	105	144	140	142	154	137	145	117	48	79	150	108	121	146	136	140
107	103	105	147	95	118	162	149	154	87	50	70	170	56	88	NR	NR	NR
121	107	114	103	78	87	155	149	153	90	34	60	76	56	64	NR	NR	NR
128	120	123	132	94	114	170	155	160	74	61	70	103	76	91	NR	NR	NR
133	120	126	140	92	125	170	155	162	93	61	76	113	105	108	123	121	122
137	125	132	92	61	72	166	154	159	111	93	102	114	53	90	126	123	124
141	127	135	109	68	99	160	156	158	118	48	107	101	79	89	129	126	127
139	128	135	96	56	75	156	48	124	71	41	56	114	101	108	127	125	126
144	134	139	128	96	112	73	41	56	90	67	78	134	113	122	136	127	130
152	132	142	138	128	135	89	46	74	89	69	79	165	134	150	146	136	142
157	134	145	138	120	124	95	56	77	97	84	91	195	164	181	152	138	148
152	135	143	139	124	131	118	95	108	112	97	104	200	193	198	142	97	112
155	136	146	147	141	144	128	118	124	115	113	114	225	182	205	191	96	157
158	136	149	152	146	149	129	117	120	117	113	115	189	140	177	NR	NR	NR
158	134	149	154	149	151	129	122	126	126	117	121	205	140	166	NR	NR	NR
160	126	145	160	149	154	126	106	114	130	125	128	141	132	140	NR	NR	NR
163	136	151	165	152	159	134	121	128	136	112	128	285	132	230	NR	NR	NR
168	140	153	164	155	160	139	134	136	117	104	110	292	72	185	NR	NR	NR
170	143	160	169	153	162	140	135	138	124	117	120	110	41	76	NR	NR	NR
175	144	160	170	156	162	139	133	136	130	124	127	98	56	80	NR	NR	NR
175	142	160	174	152	159	147	137	142	152	130	134	NR	NR	NR	NR	NR	NR
177	140	160	173	154	162	149	147	148	194	91	114	NR	NR	NR	NR	NR	NR
179	145	162	150	146	148	150	146	148	127	97	107	NR	NR	NR	NR	NR	NR

April			May			June			July			August			September		
Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
NR	NR	NR	160	150	155	138	124	131	101	97	99	95	91	93	82	81	82
NR	NR	NR	154	147	150	125	122	124	98	97	97	91	90	91	82	81	82
150	139	144	150	146	148	123	118	111	99	97	98	90	88	89	82	81	82
150	145	147	150	147	148	121	116	119	99	96	97	90	88	89	82	81	82
150	146	147	147	143	145	118	115	116	99	96	98	90	89	90	81	81	81
149	144	146	146	144	145	117	114	115	101	97	99	90	87	88	84	81	82
149	145	147	149	145	146	114	111	113	101	100	100	90	88	89	95	82	85
151	145	148	154	147	150	114	108	111	100	99	99	89	85	86	108	82	95
154	148	152	153	145	150	113	109	111	99	98	99	85	83	84	88	82	83
155	148	151	145	143	144	111	108	110	98	96	97	83	82	83	90	82	85
158	141	148	145	142	144	111	108	110	98	96	97	83	82	83	90	87	88
162	155	158	148	143	146	115	106	110	100	97	98	85	82	83	90	86	88
163	156	160	150	147	149	110	102	104	100	99	99	89	85	87	87	86	86
157	150	154	149	145	147	106	103	105	100	91	94	89	83	85	87	86	86
155	145	148	149	145	146	107	105	106	91	89	90	89	85	88	87	85	86
155	145	148	156	144	149	107	104	105	90	88	89	90	86	88	86	81	85
174	155	160	156	148	152	105	103	104	90	88	89	91	87	90	88	80	85
174	159	163	155	150	154	106	103	104	91	87	89	91	89	90	88	85	86
161	155	159	159	155	156	109	103	106	87	86	86	90	89	89	88	86	87
160	146	154	156	151	155	124	109	116	89	86	88	89	86	87	108	88	99
164	150	158	155	140	148	124	117	120	89	87	88	88	86	87	103	100	102
165	151	157	143	134	141	117	108	111	89	87	88	87	86	87	108	102	104
150	147	148	135	127	132	108	105	106	89	87	88	87	85	86	110	104	106
152	147	150	142	135	140	107	105	106	90	87	89	87	85	86	106	102	104
153	146	150	138	134	136	106	103	104	88	86	87	85	84	85	106	103	104
154	150	152	134	132	133	105	101	103	89	86	88	84	82	83	103	101	102
153	148	150	138	132	136	106	103	104	94	88	92	81	80	81	103	98	100
159	151	154	139	135	138	108	105	106	94	93	94	80	79	80	105	100	104
157	153	155	142	139	140	108	105	106	96	93	95	81	79	80	105	104	105
160	150	156	142	139	140	106	101	104	96	94	95	81	79	80	107	105	106
			142	138	140				96	94	95	81	80	81			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

A8 1120.00 CACHE CREEK NEAR CAPAY
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25°C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	990	960	970	1040	1040	1040	980	980	980	680	655	670	435	415	425	355	330	3
2	1000	930	955	1040	1000	1025	990	980	980	NR	NR	NR	445	435	440	365	355	3
3	1020	930	955	1025	980	1015	1010	990	1000	NR	NR	NR	465	445	450	385	365	3
4	1020	930	970	1015	990	995	1010	1010	1010	NR	NR	NR	505	435	465	385	365	3
5	1020	920	980	1040	1015	1025	1020	1010	1015	NR	NR	NR	435	260	300	375	365	3
6	970	840	940	1040	1040	1040	1090	1020	1060	NR	NR	NR	335	193	310	395	355	3
7	1010	920	970	1040	1000	1015	1090	1090	1090	NR	NR	NR	285	193	230	385	355	3
8	980	920	960	1025	1015	1020	1090	1090	1090	NR	NR	NR	340	285	320	375	365	3
9	980	930	970	1025	990	1020	1090	1090	1090	NR	NR	NR	355	320	350	420	375	3
10	980	970	970	990	900	950	1090	1080	1090	NR	NR	NR	330	265	285	425	420	4
11	980	940	960	980	875	935	1090	1090	1090	NR	NR	NR	320	285	310	425	425	4
12	980	950	975	1230	935	1035	1090	1090	1090	NR	NR	NR	340	320	330	430	425	4
13	1000	960	980	1500	840	1380	1090	1070	1080	NR	NR	NR	340	330	330	430	430	4
14	1000	960	980	840	380	505	1070	1060	1065	NR	NR	NR	360	330	345	430	400	4
15	960	920	935	700	470	560	1060	1060	1060	NR	NR	NR	365	360	365	530	410	4
16	935	920	930	690	400	460	1060	1020	1040	NR	NR	NR	370	365	370	530	375	5
17	990	935	960	600	340	520	1290	470	980	NR	NR	NR	375	370	375	775	440	5
18	1010	910	955	720	600	660	470	320	335	NR	NR	NR	375	375	375	785	780	7
19	1025	910	990	760	720	730	460	300	355	NR	NR	NR	375	375	375	785	765	7
20	1020	935	990	800	760	780	415	300	360	310	225	275	420	375	385	765	425	4
21	1015	980	1000	840	800	820	495	415	460	340	310	330	465	410	455	425	420	4
22	1015	970	1000	870	840	860	540	490	530	340	330	335	465	360	440	420	370	4
23	1000	935	980	870	870	870	545	495	510	355	340	345	485	410	475	420	375	3
24	1000	855	970	880	870	875	495	485	490	355	350	355	485	320	455	425	420	4
25	1025	875	990	880	880	880	530	495	520	375	355	365	320	260	275	425	425	4
26	1040	920	1000	910	880	900	550	530	540	375	365	365	335	275	310	430	420	4
27	1040	955	980	930	910	920	575	550	565	370	360	360	320	270	300	445	430	4
28	1060	945	1015	970	930	970	605	575	585	370	365	370	330	275	305	500	415	4
29	1085	945	1040	980	970	980	620	605	615	395	365	370				575	345	5
30	1040	900	1000	980	980	980	645	620	630	415	355	375				570	345	4
31	1040	970	1020				655	645	650	415	385	395				630	505	5

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	605	600	600	545	515	535	415	405	410	350	345	350	335	330	335	335	335	3
2	605	600	605	515	500	510	420	415	420	345	340	345	335	330	335	335	335	3
3	620	605	610	500	500	500	425	415	420	340	340	340	330	325	330	335	335	3
4	620	620	620	500	490	500	415	410	415	340	325	335	330	325	330	345	335	3
5	640	620	630	490	490	490	410	395	405	330	325	335	330	325	330	345	340	3
6	650	640	645	500	490	495	405	395	400	335	325	330	330	310	320	345	340	3
7	650	650	650	500	495	500	395	380	385	335	325	330	315	310	315	345	340	3
8	NR	NR	NR	495	490	495	380	380	380	340	330	335	320	315	320	345	340	3
9	NR	NR	NR	490	480	485	380	380	380	345	335	340	325	320	325	345	345	3
10	NR	NR	NR	480	475	475	380	375	380	355	340	345	325	325	325	345	340	3
11	NR	NR	NR	475	465	470	380	375	375	360	355	355	330	325	325	345	340	3
12	NR	NR	NR	470	455	460	380	370	375	355	355	355	330	330	330	345	340	3
13	NR	NR	NR	455	450	455	380	375	375	360	355	355	330	325	330	345	340	3
14	NR	NR	NR	450	450	450	375	375	375	360	355	355	325	325	325	350	350	3
15	NR	NR	NR	450	445	445	375	375	375	355	350	350	325	325	325	350	350	3
16	NR	NR	NR	450	445	450	375	375	375	355	345	350	325	315	320	350	350	3
17	NR	NR	NR	450	450	450	375	375	375	345	335	340	315	310	315	365	350	3
18	NR	NR	NR	450	445	450	375	375	375	345	335	340	315	310	310	365	360	3
19	NR	NR	NR	440	435	435	375	370	375	345	335	335	310	310	310	370	360	3
20	NR	NR	NR	435	430	430	375	375	375	335	335	335	310	310	310	375	370	3
21	NR	NR	NR	430	430	430	375	355	365	335	335	335	310	310	310	375	370	3
22	NR	NR	NR	440	430	435	355	355	355	345	335	340	315	310	310	380	375	3
23	NR	NR	NR	445	440	445	365	355	360	345	345	345	315	310	315	395	380	3
24	NR	NR	NR	445	435	440	380	365	375	345	345	345	315	310	315	410	395	4
25	NR	NR	NR	435	425	430	380	380	380	345	345	345	320	315	320	430	410	3
26	NR	NR	NR	425	425	425	380	380	380	345	340	345	340	320	325	435	430	4
27	640	610	630	450	425	430	380	365	375	340	335	335	340	325	335	435	435	4
28	620	570	600	450	450	450	365	360	365	335	335	335	340	340	340	440	435	4
29	570	435	445	450	440	445	360	355	355	335	335	335	340	335	340	445	440	4
30	550	545	545	445	425	440	355	350	355	335	330	330	340	335	340	465	445	4
31				425	410	415				335	335	335	335	335	335			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

BO 2105.00 MOKELUMNE RIVER AT WOODBRIDGE

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

Y	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	50	50	50	55	52	54	54	52	53	52	51	51	50	50	50	53	53	53
2	50	50	50	52	52	52	54	54	54	51	47	49	50	50	50	53	53	53
3	50	50	50	52	52	52	54	54	54	49	48	49	50	50	50	53	53	53
4	50	49	49	71	52	58	54	54	54	49	49	49	50	50	50	53	53	53
5	49	49	49	58	52	54	54	54	54	49	49	49	50	50	50	52	52	52
6																		
7	50	49	49	52	52	52	54	54	54	49	49	49	50	50	50	52	52	52
8	50	50	50	60	52	54	55	54	55	49	49	49	51	50	50	52	52	52
9	50	50	50	64	58	61	55	55	55	49	49	49	51	50	50	55	51	52
0	50	50	50	59	54	56	55	55	55	49	49	49	50	50	50	55	53	54
1	50	50	50	58	52	53	55	55	55	57	48	51	51	50	50	53	53	53
2																		
3	50	50	50	58	45	48	55	55	55	57	50	52	51	50	50	52	52	52
4	50	50	50	50	48	49	55	55	55	52	49	50	51	50	50	52	52	52
5	50	50	50	51	50	50	55	54	54	52	46	48	50	50	50	52	52	52
6	50	50	50	55	52	54	54	54	54	46	46	46	50	50	50	51	51	51
7	50	50	50	60	52	54	54	54	54	46	46	46	50	49	49	51	49	50
8																		
9	50	50	50	59	51	52	54	54	54	48	46	46	50	49	49	49	46	46
0	50	50	50	54	51	52	55	54	54	49	48	48	50	50	50	46	46	46
1	50	50	50	56	53	54	54	53	53	48	32	38	51	50	50	46	46	46
2	50	50	50	59	56	57	55	53	54	35	32	34	51	50	50	46	46	46
3	52	50	51	56	54	55	59	54	56	37	36	37	50	50	50	46	46	46
4																		
5	53	52	53	54	54	54	59	56	57	39	37	38	52	50	51	46	46	46
6	54	53	53	54	53	53	56	54	55	41	39	40	52	52	52	48	46	47
7	54	53	53	53	52	53	54	52	53	41	40	41	52	52	52	49	48	49
8	54	53	53	53	52	52	52	52	52	41	41	41	53	52	52	50	49	50
9	54	53	53	52	51	52	52	52	52	41	41	41	53	52	52	50	50	50
0																		
1	54	54	54	52	51	52	53	52	52	41	41	41	52	51	51	50	50	50
2	55	54	55	52	51	52	53	52	53	42	41	42	52	51	51	50	50	50
3	56	55	55	52	51	52	53	53	53	44	42	43	53	52	52	50	50	50
4	56	56	56	52	52	52	53	53	53	47	44	46				50	50	50
5	56	56	56	53	52	52	53	52	52	49	47	48				50	50	50
6	56	55	55	52	52	52	52	52	52	50	49	50				50	50	50

Y	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	50	50	50	52	51	51	51	51	51	51	50	51	50	50	51	50	50	
2	50	50	50	52	52	52	51	51	51	50	50	50	50	50	50	51	51	51
3	50	50	50	52	52	52	51	51	51	51	50	51	50	50	51	51	51	51
4	50	50	50	52	52	52	51	51	51	50	50	50	50	50	50	51	51	51
5	50	50	50	52	52	52	51	51	51	50	50	50	50	50	50	51	50	50
6																		
7	51	50	51	52	52	52	51	51	51	50	49	50	50	50	50	50	50	50
8	51	51	51	52	52	52	51	51	51	49	49	49	50	50	50	50	50	50
9	51	51	51	52	52	52	51	51	51	49	49	49	50	50	50	50	50	50
0	51	51	51	52	52	52	51	51	51	50	49	50	50	50	50	50	50	50
1	51	51	51	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
2																		
3	52	51	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
4	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
5	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
6	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
7	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
8	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
9	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
0																		
1	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
2	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
3	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
4	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
5	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
6	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
7	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
8	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
9	52	52	52	52	52	52	51	51	51	50	50	50	50	50	50	50	50	50
0																		
1	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50	50	50
2	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50	50	50
3	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50
4	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50
5	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50
6	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50
7	51	51	51	51	51	51	51	51	51	50	50	50	50	50	50	50	50	50

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

BO 2580.00 STOCKTON DIVERTING CANAL AT STOCKTON
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25°C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	230	221	225	NF	NF	NF	NF	NF	NF	NF	NF	NF	173	170	172	169	142	16
2	233	225	229	NF	NF	NF	NF	NF	NF	NF	NF	NF	173	168	170	175	159	17
3	240	228	235	NF	NF	NF	NF	NF	NF	NF	NF	NF	168	168	168	184	172	17
4	251	238	242	NF	NF	NF	NF	NF	NF	NF	NF	NF	173	166	168	185	162	17
5	276	250	265	NF	NF	NF	NF	NF	NF	NF	NF	NF	173	163	168	170	168	16
6	280	268	272	NF	NF	NF	NF	NF	NF	NF	NF	NF	185	165	167	180	169	17
7	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	172	142	158	167	150	16
8	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	162	148	166	167	135	15
9	NF	NF	NF	NF	NF	NF	NF	NF	NF	520	90	187	167	162	165	159	149	15
10	NF	NF	NF	NF	NF	NF	NF	NF	NF	190	130	150	175	148	158	215	159	16
11	NF	NF	NF	NF	NF	NF	NF	NF	NF	320	160	180	170	148	152	177	162	16
12	NF	NF	NF	600	238	412	NF	NF	NF	320	146	175	167	143	155	171	168	17
13	NF	NF	NF	600	490	540	NF	NF	NF	160	146	155	174	157	170	174	171	17
14	NF	NF	NF	680	460	580	NF	NF	NF	180	160	170	182	174	175	176	174	17
15	238	167	208	560	260	385	NF	NF	NF	210	178	185	215	168	180	176	175	17
16	260	205	235	780	335	480	450	356	410	386	117	170	175	168	170	178	176	17
17	285	218	255	775	395	475	640	182	325	150	115	130	172	168	170	179	176	17
18	236	231	233	>1000*	560	775	270	185	200	189	105	141	173	170	171	181	178	17
19	233	225	228	560	435	460	>1000*	130	320	118	105	112	177	169	173	236	182	18
20	225	220	223	NF	NF	NF	315	248	277	132	118	125	179	175	177	242	154	18
21	225	210	218	NF	NF	NF	254	245	250	140	132	136	175	169	172	177	155	16
22	NF	NF	NF	NF	NF	NF	312	254	262	144	140	145	173	169	171	222	150	16
23	NF	NF	NF	NF	NF	NF	284	225	250	185	144	162	176	170	172	167	151	16
24	NF	NF	NF	NF	NF	NF	420	225	300	168	163	166	177	171	174	151	168	17
25	NF	NF	NF	NF	NF	NF	525	235	400	221	167	175	178	176	177	191	182	18
26	NF	NF	NF	NF	NF	NF	235	218	222	208	167	171	177	172	175	194	190	19
27	NF	NF	NF	NF	NF	NF	270	222	240	170	166	168	205	152	177	203	194	20
28	NF	NF	NF	NF	NF	NF	260	244	250	171	166	168	201	135	152	200	198	20
29	NF	NF	NF	NF	NF	NF	257	250	255	172	169	171	205	185	196	205	201	20
30	NF	NF	NF	NF	NF	NF	NF	NF	NF	173	162	168	257	204	217	257	204	21
31	NF	NF	NF	NF	NF	NF	NF	NF	NF	195	152	168	256	205	218	256	205	21

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	218	210	214	>1000*	240	NR	345	250	295	220	195	210	>1000*	295	NR	240	195	215
2	234	220	228	262	240	252	254	230	245	205	190	198	340	235	280	199	194	198
3	245	235	240	>1000*	250	NR	250	225	235	210	197	205	255	225	235	199	195	198
4	287	245	255	258	238	248	238	220	238	215	200	210	240	220	225	200	192	198
5	348	287	320	250	230	240	240	230	235	215	205	210	230	290	210	209	200	205
6	NF	NF	NF	240	225	235	255	235	245	215	205	210	225	200	210	213	192	202
7	NF	NF	NF	245	225	240	280	238	260	212	202	205	216	196	206	203	195	200
8	NF	NF	NF	260	238	250	315	260	275	220	205	212	216	200	208	206	204	205
9	NF	NF	NF	260	235	248	315	215	260	220	208	218	206	174	194	210	206	208
10	NF	NF	NF	280	248	262	232	202	215	232	220	225	208	175	190	210	184	200
11	NF	NF	NF	285	240	265	222	200	215	240	230	235	208	178	192	200	186	195
12	NF	NF	NF	275	238	255	225	205	215	260	240	250	201	178	190	200	184	195
13	NF	NF	NF	262	238	250	220	210	215	285	260	275	202	174	188	202	184	195
14	>1000*	>1000*	>1000*	348	245	265	215	202	208	290	285	290	202	170	188	202	185	195
15	NF	NF	NF	340	255	305	>1000*	215	NR	305	290	300	206	175	190	820	186	230
16	>1000*	310	NR	332	242	275	>1000*	220	NR	305	260	295	225	181	196	840	205	380
17	378	320	340	262	235	252	230	292	210	260	220	240	230	180	205	206	198	202
18	NF	NF	NF	258	240	250	220	290	200	225	210	218	208	184	195	206	192	200
19	NF	NF	NF	260	250	255	212	290	202	220	205	212	206	185	196	202	194	199
20	NF	NF	NF	260	248	252	220	295	210	225	197	210	204	185	195	205	200	202
21	NF	NF	NF	258	248	252	225	220	245	220	190	205	206	189	197	206	200	200
22	NF	NF	NF	255	242	250	280	250	265	225	190	210	203	186	195	205	196	200
23	NF	NF	NF	258	240	250	250	205	225	215	200	205	198	186	193	>1000*	205	NR
24	NF	NF	NF	260	240	250	215	205	210	215	200	210	204	196	200	330	196	217
25	NF	NF	NF	268	240	258	215	205	210	215	210	215	212	200	205	204	186	198
26	NF	NF	NF	258	220	235	220	205	215	225	215	220	204	183	192	208	185	200
27	250	180	190	230	225	228	235	208	220	250	215	235	200	190	195	212	186	202
28	204	180	190	240	230	235	225	205	210	240	205	228	285	190	205	216	190	200
29	225	195	210	250	240	245	225	205	210	220	205	215	201	195	200	214	198	205
30	138	125	130	>1000*	238	NR	210	200	205	200	210	215	205	195	200	210	195	205
31				>1000*	245	NR				>1000*	215	NR	218	205	212			

NF - No flow
NR - No record
* - Reading exceeds recorder's maximum range

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B1 1150.00 COSUMNES RIVER AT MICHIGAN BAR
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	77	71	73	80	77	79	113	111	112	101	100	100	105	103	104	87	86	87
2	74	70	72	80	78	79	112	110	111	102	100	101	108	105	107	87	86	86
3	74	70	72	82	78	80	112	110	111	102	100	101	115	107	110	96	86	89
4	73	70	71	103	74	88	111	110	111	100	97	98	113	103	108	95	88	91
5	72	69	71	100	76	85	111	101	107	101	97	99	103	101	102	92	90	91
6	73	71	72	89	78	84	102	97	100	107	101	105	110	102	107	100	91	96
7	74	72	73	83	77	79	116	102	111	107	103	105	111	81	97	98	96	97
8	75	73	74	78	76	77	120	112	115	109	101	104	91	81	88	103	95	100
9	76	74	75	76	73	75	128	118	123	122	79	98	96	91	93	101	101	101
0	76	74	75	79	74	76	138	125	132	111	104	107	104	74	85	110	101	103
1	78	75	77	95	76	86	147	135	142	113	65	90	90	80	86	111	90	98
2	80	77	78	94	91	93	144	137	140	68	56	60	83	79	80	91	89	90
3	80	76	78	105	93	100	137	128	132	70	60	65	88	83	86	91	89	90
4	78	75	77	111	98	103	130	125	127	75	70	74	96	88	92	89	88	89
5	77	75	76	118	66	102	127	125	126	91	75	79	95	90	93	90	88	89
6	78	75	76	158	68	117	125	119	122	91	61	75	97	95	96	90	89	90
7	83	76	79	138	123	132	134	96	120	73	61	67	99	97	98	91	90	90
8	86	82	84	132	128	130	96	75	87	75	65	71	100	98	99	90	89	90
9	86	84	85	130	128	129	95	76	88	77	68	74	100	99	100	94	89	90
0	85	79	82	128	125	127	87	84	85	81	77	79	100	99	99	110	94	100
1	81	78	80	125	121	123	89	85	87	84	81	83	100	99	99	106	98	102
2	83	79	81	122	120	121	105	89	95	86	83	85	99	98	99	108	105	107
3	83	79	81	121	120	120	99	85	89	88	85	86	99	98	98	108	104	106
4	80	76	78	120	118	119	101	85	94	90	87	89	98	96	98	104	102	103
5	78	75	77	119	117	118	103	101	102	104	90	97	96	92	93	102	101	102
6	78	76	77	118	117	118	102	101	102	102	99	101	113	92	97	101	98	100
7	79	77	78	117	117	117	102	101	101	102	100	101	105	64	90	100	96	98
8	79	77	78	117	114	116	109	101	106	103	102	103	93	77	83	97	92	95
9	79	77	78	115	113	114	105	103	104	105	103	104				92	90	90
0	79	77	78	113	112	113	105	103	104	110	92	98				98	90	91
1	79	78	79				104	101	103	105	98	102				102	95	99

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	95	89	92	49	48	48	47	46	47	67	66	66	NR	NR	NR	66	62	64
2	89	88	89	50	49	49	49	47	48	67	66	66	NR	NR	NR	67	65	66
3	89	88	88	50	49	50	50	49	50	67	66	66	NR	NR	NR	67	66	66
4	89	87	88	50	48	49	51	50	51	67	66	66	NR	NR	NR	67	66	66
5	88	85	87	56	50	54	52	50	51	68	66	67	NR	NR	NR	66	65	66
6	85	83	84	56	55	56	52	50	51	68	67	67	NR	NR	NR	66	64	65
7	83	78	81	57	55	56	52	50	51	68	67	68	NR	NR	NR	66	64	65
8	78	73	76	55	51	52	52	50	51	69	67	68	NR	NR	NR	66	64	65
9	73	70	72	51	49	50	53	51	52	68	67	67	NR	NR	NR	67	66	66
0	70	67	69	49	47	49	54	51	52	69	67	68	NR	NR	NR	68	66	67
1	67	62	65	48	45	47	54	53	53	72	68	69	NR	NR	NR	69	66	67
2	63	61	62	45	43	44	56	53	55	71	70	70	NR	NR	NR	70	68	69
3	67	61	63	43	42	42	57	55	56	71	70	71	NR	NR	NR	71	70	71
4	69	65	67	42	42	42	58	56	57	72	70	71	NR	NR	NR	74	70	72
5	65	64	65	42	41	41	58	56	57	73	71	72	NR	NR	NR	73	70	71
6	64	63	64	41	41	41	60	57	58	74	72	73	NR	NR	NR	72	66	70
7	75	64	66	41	37	39	61	58	59	74	72	73	NR	NR	NR	72	69	71
8	74	65	70	39	37	38	62	60	61	74	72	73	NR	NR	NR	72	70	71
9	65	63	64	40	39	39	63	60	62	74	72	73	NR	NR	NR	72	69	71
0	63	61	63	41	40	40	64	61	62	NR	NR	NR	NR	NR	NR	73	70	71
1	62	61	62	42	41	41	64	61	63	NR	NR	NR	59	58	58	71	69	70
2	62	61	62	43	42	43	65	62	63	NR	NR	NR	58	58	58	71	70	71
3	62	59	61	44	43	44	65	63	64	NR	NR	NR	58	56	57	71	68	69
4	60	56	58	45	44	44	65	64	65	NR	NR	NR	57	56	57	69	67	68
5	56	52	54	47	45	46	65	63	64	NR	NR	NR	57	56	57	68	66	67
6	53	50	51	47	47	47	65	64	64	NR	NR	NR	57	56	56	69	66	67
7	51	47	49	49	47	48	65	64	65	NR	NR	NR	58	57	57	72	69	70
8	47	46	46	49	48	49	66	65	65	NR	NR	NR	59	57	58	74	71	72
9	47	46	46	48	47	48	66	65	66	NR	NR	NR	61	59	60	74	72	73
0	48	46	47	48	46	47	66	65	66	NR	NR	NR	62	60	61	77	74	75
1				46	46	46				NR	NR	NR	62	61	61			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 757.8 121.9 STOCKTON SHIP CHANNEL AT BURNS CUTOFF

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25°C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	490	475	485	600	570	585	750	740	745	670	640	650	700	455	640	660	390	660
2	490	480	485	650	580	600	750	740	745	675	650	660	675	385	610	670	400	600
3	490	480	485	640	615	625	750	745	750	685	660	675	655	470	570	595	560	570
4	500	480	490	665	625	645	760	750	755	700	685	695	660	450	590	575	315	530
5	520	495	505	735	650	685	770	755	765	715	700	710	655	370	590	515	310	460
6	550	515	530	755	700	725	795	765	780	725	710	720	645	450	590	540	320	450
7	540	520	530	760	705	735	785	770	780	730	720	725	670	370	585	615	260	480
8	530	515	520	765	735	755	780	760	770	750	725	735	640	320	540	590	315	530
9	515	490	505	770	740	760	765	755	760	740	730	735	605	345	525	575	440	490
10	505	485	490	765	750	760	760	750	755	735	560	655	595	360	440	450	410	440
11	500	490	495	765	755	760	755	740	750	645	475	550	560	215	440	430	325	410
12	515	500	510	765	730	755	750	735	740	515	395	450	530	270	440	410	335	390
13	520	505	515	780	745	755	740	725	735	490	385	445	440	295	380	475	380	410
14	530	515	525	760	745	755	755	720	740	495	370	455	310	220	265	550	295	460
15	540	520	530	765	750	755	750	740	745	395	350	375	240	225	230	580	400	540
16	545	530	540	760	710	750	745	740	745	400	355	370	270	240	260	575	455	550
17	565	540	555	745	710	735	745	740	740	355	145	295	260	240	250	585	500	550
18	595	550	570	735	670	715	755	735	745	320	225	290	275	240	255	640	505	590
19	615	575	595	720	690	705	750	730	740	360	260	335	340	275	310	650	605	630
20	635	590	610	705	675	690	750	725	745	355	225	310	395	315	370	645	565	620
21	650	610	630	695	675	685	750	720	735	335	275	305	425	340	405	645	560	600
22	660	630	645	685	665	680	730	705	720	345	275	295	440	300	425	595	430	560
23	670	655	665	685	660	670	720	680	705	410	325	370	460	435	445	555	470	520
24	685	645	675	670	665	670	NR	NR	NR	470	365	425	475	430	455	530	450	500
25	695	680	690	695	670	685	NR	NR	NR	555	460	505	505	470	480	460	395	410
26	690	625	655	715	690	710	NR	NR	NR	610	490	560	565	500	520	400	315	380
27	640	565	590	735	710	725	NR	NR	NR	640	520	600	660	560	580	410	370	380
28	590	570	580	745	730	735	NR	NR	NR	650	480	590	670	340	630	465	400	420
29	590	575	585	740	735	735	645	625	630	675	425	560	675	425	560	470	450	450
30	585	570	575	750	740	740	635	625	630	695	580	645	695	580	645	480	435	450
31	575	565	570	660	630	640	660	630	640	735	615	690	735	615	690	445	420	430

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	450	435	440	765	700	725	445	385	410	465	400	440	460	395	425	520	445	480
2	460	420	450	780	710	735	410	360	385	460	395	435	455	390	425	545	450	500
3	470	410	455	755	690	720	380	340	360	465	405	435	460	390	425	565	470	515
4	460	430	455	725	660	705	355	325	340	455	415	440	480	390	425	575	455	515
5	455	425	440	715	655	690	390	340	345	470	410	440	450	385	415	565	465	525
6	435	415	420	700	640	675	380	350	355	470	420	440	455	380	415	585	480	550
7	490	415	435	680	630	660	405	360	375	460	410	440	475	380	415	595	510	560
8	495	450	465	665	630	650	425	380	400	455	400	435	455	365	410	610	530	580
9	500	485	490	695	640	655	430	400	415	455	385	430	460	370	415	620	555	595
10	515	485	490	680	640	655	430	410	420	440	375	415	480	370	420	605	540	585
11	515	490	500	660	650	655	455	420	430	445	380	415	490	375	425	615	560	605
12	525	495	505	665	645	655	430	400	420	440	375	415	455	380	420	630	590	610
13	535	515	525	670	650	660	420	405	415	425	375	405	485	380	430	635	590	615
14	535	520	530	675	650	660	420	410	415	440	360	395	480	390	430	630	585	615
15	545	525	530	690	645	665	425	410	420	430	360	400	475	385	425	630	595	615
16	590	540	555	NR	NR	NR	440	410	420	450	370	405	485	400	425	620	595	615
17	590	565	580	NR	NR	NR	430	410	420	445	375	415	470	400	435	625	600	620
18	605	585	595	NR	NR	NR	435	410	420	460	380	415	480	390	435	630	605	620
19	620	600	605	NR	NR	NR	430	420	425	470	390	420	480	390	435	630	605	625
20	620	585	615	NR	NR	NR	435	420	425	NR	NR	NR	505	390	440	635	620	630
21	680	610	625	NR	NR	NR	445	425	430	NR	NR	NR	500	400	445	640	615	630
22	670	615	625	NR	NR	NR	455	425	435	NR	NR	NR	520	395	450	645	625	640
23	650	630	635	NR	NR	NR	465	440	450	NR	NR	NR	490	390	445	670	630	650
24	680	635	645	NR	NR	NR	465	430	450	NR	NR	NR	490	380	445	665	640	655
25	680	645	655	NR	NR	NR	470	430	455	NR	NR	NR	495	400	460	660	650	655
26	720	655	665	465	430	445	465	420	450	NR	NR	NR	495	390	455	665	655	660
27	710	660	670	465	435	445	460	410	440	460	380	425	490	395	455	690	660	665
28	720	660	680	510	445	460	455	400	435	460	380	420	500	415	465	685	665	675
29	720	670	690	485	450	470	465	405	440	465	380	425	515	435	470	690	670	675
30	735	680	705	480	445	465	470	400	440	450	390	425	505	415	465	690	660	675
31				470	400	440				450	390	425	540	435	475			

NR - No record

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 801.1 148.1 SAN JOAQUIN RIVER AT ANTIOCH
(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	1,120	560	840	680	330	510	NR	NR	NR	270	200	230	335	270	290	440	340	365
2	1,080	530	810	640	350	500	NR	NR	NR	260	190	225	335	265	285	400	330	355
3	1,120	520	840	615	320	485	NR	NR	NR	260	205	230	340	225	280	395	320	345
4	1,100	580	830	740	320	510	NR	NR	NR	260	215	235	350	235	285	375	315	345
5	1,000	530	780	705	330	505	NR	NR	NR	260	210	240	350	255	285	375	315	335
6	970	500	740	720	310	500	NR	NR	NR	260	220	240	280	190	220	395	315	340
7	1,000	520	795	925	305	550	NR	NR	NR	265	215	235	345	220	280	390	315	345
8	1,080	590	835	710	310	495	NR	NR	NR	280	200	230	380	255	315	375	275	340
9	1,220	560	855	NR	NR	NR	NR	NR	NR	250	165	210	415	260	325	400	310	350
10	1,270	520	880	NR	NR	NR	NR	NR	NR	270	200	225	450	305	365	410	325	355
11	1,200	500	805	NR	NR	NR	NR	NR	NR	270	185	210	455	250	355	425	320	360
12	1,170	480	810	NR	NR	NR	NR	NR	NR	245	165	190	430	335	380	430	320	365
13	1,100	500	785	NR	NR	NR	NR	NR	NR	220	175	200	455	270	350	440	320	370
14	1,020	480	780	NR	NR	NR	NR	NR	NR	245	185	210	465	270	365	425	340	375
15	1,140	500	850	NR	NR	NR	NR	NR	NR	270	190	225	425	330	380	440	335	380
16	1,080	500	810	NR	NR	NR	290	265	275	280	170	215	440	330	380	430	330	375
17	1,060	450	740	NR	NR	NR	415	260	305	280	225	245	460	340	385	420	335	375
18	970	390	680	NR	NR	NR	580	270	360	295	205	235	455	325	390	425	335	375
19	1,065	430	725	NR	NR	NR	615	265	400	295	195	240	475	355	405	415	345	380
20	1,045	445	735	NR	NR	NR	480	260	360	280	195	235	480	355	405	420	330	380
21	1,020	345	595	NR	NR	NR	400	260	345	270	200	230	465	370	405	415	355	380
22	975	355	640	NR	NR	NR	370	295	335	280	215	245	NR	NR	NR	430	350	385
23	1,045	325	675	NR	NR	NR	350	260	315	295	215	255	NR	NR	NR	435	360	390
24	1,125	310	730	NR	NR	NR	330	250	290	295	210	250	465	325	370	435	365	395
25	NR	NR	NR	NR	NR	NR	270	240	260	305	220	255	445	350	370	445	355	400
26	NR	NR	NR	NR	NR	NR	265	230	250	300	225	255	460	335	370	455	365	405
27	1,300	375	815	NR	NR	NR	260	190	230	300	230	260	440	320	365	465	365	405
28	1,130	345	770	NR	NR	NR	250	205	230	315	235	265	430	330	370	475	375	410
29	970	355	650	NR	NR	NR	260	205	235	315	210	260	470	395	420	470	395	420
30	740	305	485	NR	NR	NR	270	205	235	335	235	275	475	395	420	475	395	420
31	695	325	510	NR	NR	NR	250	200	230	350	250	290	475	390	425	475	390	425

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	470	395	435	NR	NR	NR	1,315	360	675	4,420	1,350	2,490	4,770	2,250	3,340	NR	NR	NR
2	455	390	430	NR	NR	NR	NR	NR	NR	4,500	1,500	2,610	4,780	2,180	3,180	NR	NR	NR
3	465	380	425	NR	NR	NR	NR	NR	NR	3,920	1,630	2,570	4,800	2,200	3,130	NR	NR	NR
4	455	375	420	1,000	290	540	NR	NR	NR	3,370	870	2,250	4,920	2,290	3,190	NR	NR	NR
5	450	380	420	1,045	275	570	NR	NR	NR	4,230	2,010	2,790	5,080	2,210	3,350	NR	NR	NR
6	450	365	415	1,030	275	575	NR	NR	NR	4,420	1,970	2,880	5,360	2,080	3,420	NR	NR	NR
7	445	365	410	1,000	310	580	NR	NR	NR	4,520	1,920	2,960	5,320	2,210	3,390	NR	NR	NR
8	445	380	405	730	270	525	NR	NR	NR	4,880	2,290	3,010	5,350	2,020	3,390	2,120	820	1,390
9	430	365	390	645	270	470	NR	NR	NR	5,230	2,290	3,210	5,460	1,870	3,220	1,930	880	1,370
10	405	355	380	680	295	490	NR	NR	NR	5,630	2,460	3,430	4,920	1,730	2,980	2,290	1,090	1,570
11	385	355	370	700	360	530	NR	NR	NR	6,010	2,430	3,520	4,530	1,760	2,920	2,080	980	1,380
12	380	345	365	815	380	585	1,240	410	760	5,720	2,380	3,560	4,680	1,770	2,840	1,880	870	1,270
13	380	350	360	995	385	640	1,370	410	820	5,280	2,500	3,670	3,980	1,790	2,620	1,830	820	1,230
14	375	350	355	1,190	370	700	1,480	400	800	6,290	2,370	3,770	3,780	1,860	2,620	1,620	730	1,120
15	370	340	350	1,275	325	715	1,330	400	800	6,100	2,210	3,550	3,720	1,870	2,660	1,580	700	1,060
16	370	340	345	1,320	335	700	1,520	470	910	5,370	2,100	3,330	3,720	1,890	2,630	1,560	630	1,080
17	360	335	340	1,325	360	770	1,620	430	930	5,050	2,090	3,230	3,820	1,820	2,540	1,430	620	930
18	365	305	335	1,445	380	865	1,330	480	880	4,890	2,080	3,130	3,770	1,870	2,510	1,370	570	920
19	360	300	330	NR	465	NR	1,430	520	930	4,180	2,080	3,010	3,880	1,920	2,490	1,210	480	880
20	360	295	320	1,490	365	805	1,240	620	970	4,270	1,990	2,970	4,060	1,700	2,330	1,130	430	820
21	365	305	320	1,280	330	760	1,390	580	1,060	4,020	1,780	2,640	4,400	1,640	2,640	1,130	490	750
22	NR	NR	NR	1,035	340	690	1,580	730	1,140	4,450	2,050	2,730	4,880	1,480	2,780	1,020	420	730
23	NR	NR	NR	870	320	640	1,680	720	1,080	4,500	1,930	2,880	4,650	1,580	2,950	980	420	690
24	NR	NR	NR	800	320	620	2,120	800	1,190	4,620	1,140	2,750	4,840	1,400	2,820	960	430	690
25	NR	NR	NR	685	340	555	2,620	810	1,350	4,870	1,660	2,840	4,830	1,570	2,760	860	380	590
26	NR	NR	NR	645	330	490	2,620	870	1,470	5,260	1,800	3,160	4,300	1,600	2,780	730	340	520
27	NR	NR	NR	580	360	460	3,630	960	1,870	6,390	2,000	3,540	4,390	1,620	2,560	680	340	510
28	NR	NR	NR	NR	NR	NR	4,650	1,220	2,290	6,420	1,940	3,630	3,820	1,620	2,490	670	320	510
29	NR	NR	NR	NR	NR	NR	5,400	1,300	2,670	6,300	1,920	3,370	3,580	1,650	2,450	720	330	530
30	NR	NR	NR	NR	NR	NR	5,250	1,280	2,660	5,620	2,080	3,390	3,870	1,720	2,570	770	360	560
31	NR	NR	NR	1,090	360	625	NR	NR	NR	5,580	2,080	3,340	3,780	1,740	2,600	NR	NR	NR

NR - No record

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 820.7 132.7 SACRAMENTO RIVER AT GREENE'S LANDING

(October 1, 1972, through September 30, 1973)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	177	155	166	156	142	148	153	142	148	151	129	139	141	137	139	127	118	122
2	157	147	151	145	132	137	150	139	148	138	124	131	138	135	136	132	127	129
3	166	148	158	133	130	132	141	125	133	135	126	130	140	135	138	129	124	127
4	168	145	156	135	125	131	127	119	123	135	126	131	141	135	139	129	124	126
5	158	146	152	128	120	125	131	119	124	165	128	143	140	135	137	129	125	126
6	157	141	150	158	131	142	160	116	134	165	158	162	139	135	138	132	127	129
7	161	138	150	146	125	134	155	144	149	175	153	162	145	137	141	133	129	130
8	152	134	143	132	126	129	164	145	154	163	155	158	144	136	138	132	128	131
9	141	135	138	150	129	138	151	140	146	166	152	158	142	131	139	132	129	131
10	165	135	149	136	125	130	152	143	147	169	153	158	137	135	136	135	130	133
11	141	135	137	135	126	130	150	135	144	167	146	155	137	126	131	137	132	134
12	150	138	144	173	129	138	148	140	143	151	132	140	128	123	125	135	132	134
13	163	146	153	188	156	171	163	140	148	135	120	126	129	126	127	138	132	136
14	150	144	147	186	148	165	157	137	142	136	123	130	129	125	128	138	132	135
15	158	141	149	198	158	176	150	140	144	133	127	130	132	126	130	141	133	138
16	147	137	143	176	129	160	150	145	147	129	127	128	132	128	130	147	139	143
17	175	142	157	136	123	130	168	141	150	135	97	117	137	132	135	158	145	148
18	152	136	144	130	121	124	168	146	154	100	95	97	137	132	135	150	145	148
19	160	137	146	136	130	133	172	142	160	96	92	94	137	131	133	150	146	148
20	158	135	144	153	128	138	143	118	133	101	89	95	140	133	137	152	150	151
21	144	138	141	153	147	151	138	128	133	90	84	87	142	135	138	155	145	150
22	153	142	147	162	143	147	135	123	128	89	85	87	147	139	144	157	144	151
23	151	145	147	157	142	147	131	122	127	89	86	88	145	139	142	143	117	133
24	169	142	154	153	145	150	132	126	129	89	88	89	147	138	143	137	127	130
25	161	139	153	157	146	153	140	125	131	91	89	91	146	139	143	145	135	141
26	148	132	142	162	144	149	128	119	124	132	80	106	147	141	145	156	139	148
27	141	135	139	166	144	154	129	125	126	131	131	131	147	140	144	158	150	152
28	150	137	141	160	138	148	131	125	127	131	131	131	142	122	135	162	145	155
29	147	136	141	157	147	151	145	128	135	139	133	136				169	150	161
30	145	136	141	168	143	155	142	131	136	142	141	142				172	159	164
31	181	142	161				142	131	136	142	142	142				172	161	166

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	169	160	164	158	152	156	147	137	141	NR	NR	NR						
2	159	150	155	158	143	154	146	135	139	NR	NR	NR						
3	163	153	158	157	144	152	145	133	139	NR	NR	NR						
4	159	152	157	157	125	141	147	136	142	NR	NR	NR						
5	172	155	163	135	119	127	150	141	145	NR	NR	NR						
6	165	159	162	139	125	130	147	136	142	168	146	156						
7	171	158	165	138	128	131	146	135	139	200	159	179						
8	169	159	164	139	128	133	150	135	141	NR	NR	NR						
9	166	155	160	137	129	134	139	133	136	NR	NR	NR						
10	168	159	164	150	131	141	138	132	136	NR	NR	NR						
11	168	159	163	151	137	143	135	120	130	NR	NR	NR						
12	175	156	163	150	139	145	129	121	125	NR	NR	NR						
13	179	152	162	152	141	148	122	115	119	NR	NR	NR						
14	185	167	173	157	145	152	122	115	119	NR	NR	NR						
15	175	161	165	186	150	170	150	115	122	NR	NR	NR						
16	172	151	159	183	179	182	126	109	120	NR	NR	NR						
17	164	153	158	193	187	190	139	106	124	NR	NR	NR						
18	153	146	150	191	186	187	135	119	127	NR	NR	NR						
19	166	152	160	193	185	189	143	121	133	RE	RE	RE						
20	157	151	154	192	181	186	155	125	136									
21	151	146	149	185	169	180	149	127	135									
22	153	143	148	182	172	177	142	124	132									
23	162	148	153	185	169	175	141	118	129									
24	162	153	158	181	163	171	130	117	124									
25	162	152	157	175	156	169	NR	NR	NR									
26	167	151	159	181	167	176	NR	NR	NR									
27	166	149	157	188	176	182	NR	NR	NR									
28	159	147	154	195	181	187	NR	NR	NR									
29	153	148	151	192	182	186	NR	NR	NR									
30	153	143	148	193	182	187	NR	NR	NR									
31				196	143	173												

NR - No record.

RE - Record ended. Recorder removed July 19, 1973.

TABLE D-10

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Codes and Abbreviations

<u>Total</u>	- Total Phytoplankton per milliliter
<u>Bl-Gr</u>	- Blue-Green Algae
<u>Green</u>	- Green Algae
<u>Flag</u>	- Flagellates
<u>C/P</u>	- Centric over Pennate
<u>Samp</u>	- 5001 - U. S. Bureau of Reclamation 5050 - Department of Water Resources 5073 - Department of Fish and Game
<u>Lab</u>	- 5050 - Department of Water Resources Laboratory

Most Abundant Phytoplankton

<u>Blue-Green Algae</u>		<u>Green Algae</u>	
B 01	Agmenellum-Merismopedia	G 02	Ankistrodesmus
B 03	Anacystis	G 12	Oocystis
B 51	Anabaena	G 14	Pediastrum
		G 15	Scenedesmus
		G 19	Schroderia
		G 22	Selenastrum
		G 23	Tetraedron
		G 27	Treubaria
		G 33	Gloeocystis
	<u>Flagellates</u>		
F 02	Carteria (Chlamydomonas)		
F 03	Euglena		
F 08	Trachelomonas		
F 52	Dinobryon		
F 54	Dionflagellates (Dinophyceae)		
F 55	Ceratium (Dinoflagellate)		
F 56	Cryptomonas		
F 99	Unidentified		

Diatoms

<u>Centric</u>		<u>Pennate</u>	
D 02	Coscinodiscus	D 55	Asterionella
D 03	Cyclotella	D 57	Cocconeis
D 05	Melosira (fresh water)	D 60	Diatoma
D 06	Stephanodiscus	D 62	Fragilaria
		D 65	Navicula
		D 66	Nitzschia
		D 70	Synedra
		D 71	Tabellaria
		D 75	Epithemia

TABLE D-10(Cont.)

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lab	
			Total	B1-Gr	Green	Flog	Diatoms C P	1	2	3	4	5	6			
A5 L 010.7 105.1	LAKE ALMANOR AT INTAKE TOWER NEAR DAM	10-25-72 1015 (1 Foot)	794	190		476	$\frac{32}{96}$	$\frac{F 99}{47.9}$	$\frac{B 03}{23.9}$	$\frac{F 56}{12.1}$	$\frac{D 71}{8.1}$	$\frac{D 02}{4.0}$	$\frac{D 62}{4.0}$	5050	5050	
		10-25-72 0955 (7 Feet)	952	220	32	636	$\frac{0}{64}$	$\frac{F 99}{56.7}$	$\frac{B 03}{23.1}$	$\frac{F 56}{10.1}$	$\frac{G 02}{3.4}$	$\frac{D 66}{3.4}$	$\frac{D 71}{3.4}$	5050	5050	
		04-17-73 1220 (7 Feet)	956		64	892		$\frac{F 99}{90.0}$	$\frac{G 02}{6.7}$	$\frac{F 56}{3.3}$				5050	5050	
		06-27-73 0905 (* 1,12,23)	256			128	$\frac{32}{96}$	$\frac{F 99}{25.0}$	$\frac{F 52}{25.0}$	$\frac{D 71}{37.5}$	$\frac{D 03}{12.5}$				5050	5050
		08-15-73 1000 (40 Feet)	1434	96		604	$\frac{352}{382}$	$\frac{F 99}{37.6}$	$\frac{D 62}{22.3}$	$\frac{D 06}{13.4}$	$\frac{D 05}{6.7}$	$\frac{D 03}{4.5}$	$\frac{D 71}{4.5}$		5050	5050
		08-15-73 1005 (* 1,10,20,30,40,50,60)	576	32	32	384	$\frac{0}{128}$	$\frac{F 99}{33.0}$	$\frac{F 56}{22.6}$	$\frac{F 52}{11.1}$	$\frac{D 60}{11.1}$	$\frac{D 65}{11.1}$	$\frac{B 03}{5.6}$		5050	5050
		04-17-73 1055 (7 Feet)	1646		32	1232	$\frac{350}{32}$	$\frac{F 99}{72.9}$	$\frac{D 03}{21.3}$	$\frac{F 56}{1.9}$	$\frac{G 19}{1.9}$	$\frac{D 70}{1.9}$			5050	5050
A5 L 013.1 107.9	LAKE ALMANOR NEAR BUNNEL POINT	05-22-73 1330	640		32	576	$\frac{0}{32}$	$\frac{F 99}{75.0}$	$\frac{F 56}{15.0}$	$\frac{G 02}{5.0}$	$\frac{D 62}{5.0}$			5073	5050	
		08-15-73 1445	356			356		$\frac{F 99}{73.0}$	$\frac{F 52}{27.0}$					5050	5050	
		10-25-72 1420	8496	6400	64	2000	$\frac{0}{32}$	$\frac{B 51}{75.3}$	$\frac{F 99}{23.5}$	$\frac{G 19}{0.8}$	$\frac{D 71}{0.4}$			5050	5050	
A5 L 014.3 106.5	LAKE ALMANOR, EAST ARM, CENTER	04-17-73 1400 (* 0-18)	930		32	834	$\frac{0}{64}$	$\frac{F 99}{82.8}$	$\frac{F 56}{6.9}$	$\frac{D 70}{6.9}$	$\frac{G 02}{3.4}$			5050	5050	
		05-22-73 1400 (* 3,10,23,33)	988		32	796	$\frac{160}{0}$	$\frac{F 99}{70.7}$	$\frac{D 03}{16.2}$	$\frac{F 56}{6.5}$	$\frac{F 52}{3.2}$	$\frac{G 02}{3.2}$			5073	5050
		06-27-73 0930 (14 Feet)	320	32	96	96	$\frac{96}{0}$	$\frac{F 99}{30.0}$	$\frac{G 15}{30.0}$	$\frac{D 03}{30.0}$	$\frac{B 03}{10.0}$			5050	5050	
		06-27-73 0935 (32 Feet)	936			776	$\frac{160}{0}$	$\frac{F 99}{79.5}$	$\frac{D 03}{17.1}$	$\frac{F 56}{3.4}$				5050	5050	
		06-27-73 0940 (* 1,14,27,32)	508		96	192	$\frac{220}{0}$	$\frac{D 03}{43.3}$	$\frac{F 99}{31.5}$	$\frac{G 02}{18.9}$	$\frac{F 56}{6.3}$			5050	5050	
		07-12-73 -- (13 Feet)	382	190		160	$\frac{32}{0}$	$\frac{B 03}{49.7}$	$\frac{F 99}{41.9}$	$\frac{D 03}{8.4}$				5073	5050	
		07-12-73 -- (33 Feet)	1308	380	32	704	$\frac{160}{32}$	$\frac{F 99}{48.9}$	$\frac{B 03}{29.0}$	$\frac{D 03}{12.2}$	$\frac{D 71}{2.5}$	$\frac{F 54}{2.5}$	$\frac{F 56}{2.4}$	5073	5050	
		07-12-73 -- (* 1,13,26,33)	286			254	$\frac{32}{0}$	$\frac{F 99}{66.4}$	$\frac{F 08}{11.2}$	$\frac{F 56}{11.2}$	$\frac{D 03}{11.2}$			5073	5050	
		07-19-73 1215 (10 Feet)	192		32	160		$\frac{F 99}{83.3}$	$\frac{G 12}{16.7}$					5050	5050	
		07-19-73 1220 (40 Feet)	796	128	64	222	$\frac{350}{32}$	$\frac{D 03}{44.0}$	$\frac{F 99}{23.9}$	$\frac{B 03}{16.1}$	$\frac{G 33}{4.0}$	$\frac{G 19}{4.0}$	$\frac{D 62}{4.0}$	5050	5050	
		07-19-73 1230 (* 1,5,10,20,40)	290	64	64	162		$\frac{F 99}{44.8}$	$\frac{B 03}{22.1}$	$\frac{G 12}{22.1}$	$\frac{F 56}{11.0}$			5050	5050	
		07-25-73 1500 (31 Feet)	706			96	$\frac{610}{0}$	$\frac{D 03}{87.2}$	$\frac{F 56}{9.2}$	$\frac{F 55}{4.6}$				5073	5050	
		07-25-73 1550 (36 Feet)	388	96	32	130	$\frac{130}{0}$	$\frac{F 56}{33.5}$	$\frac{D 03}{33.5}$	$\frac{B 03}{24.7}$	$\frac{G 27}{8.2}$			5073	5050	
		07-25-73 -- (* 1-17)	448			352	$\frac{64}{32}$	$\frac{F 99}{71.4}$	$\frac{D 03}{14.3}$	$\frac{D 55}{7.1}$	$\frac{D 03}{7.1}$			5073	5050	
		08-14-73 1440 (40 Feet)	1956	352	32	576	$\frac{964}{32}$	$\frac{F 99}{24.5}$	$\frac{D 06}{24.5}$	$\frac{D 03}{21.5}$	$\frac{B 01}{16.4}$	$\frac{F 56}{4.9}$	$\frac{D 05}{3.3}$	5050	5050	
		08-14-73 1445 (45 Feet)	2058			804	$\frac{930}{324}$	$\frac{F 99}{35.9}$	$\frac{D 03}{31.0}$	$\frac{D 06}{14.1}$	$\frac{D 62}{12.6}$	$\frac{D 71}{3.2}$	$\frac{F 56}{3.2}$	5050	5050	
		08-14-73 1500 (50 Feet)	1600	160		670	$\frac{770}{0}$	$\frac{F 99}{31.9}$	$\frac{D 03}{31.9}$	$\frac{D 06}{16.2}$	$\frac{F 56}{10.0}$	$\frac{B 03}{10.0}$		5050	5050	

* = Composite of samples from depths listed (in feet).

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lob	
			Total	Bl-Gr	Green	Flag	Diatoms C/P	1	2	3	4	5	6			
A5 L 014.3 106.5	LAKE ALMANOR, EAST ARM, CENTER (CONTINUED)	08-14-73 1510 (* 1,10,20,25,30)	382	32		350		<u>F 99</u> 91.6	<u>B 03</u> 8.4						5050	5050
		08-27-73 1340 (7 Feet)	64				<u>64</u> 0	<u>D 06</u> 100							5073	5050
		08-27-73 1435 (40 Feet)	540		32	284	<u>32</u> 192	<u>F 99</u> 40.7	<u>D 60</u> 17.8	<u>F 56</u> 11.9	<u>D 55</u> 11.9	<u>G 14</u> 5.9	<u>D 03</u> 5.9		5073	5050
		08-27-73 1440 (46 Feet)	542			160	<u>382</u> 0	<u>D 06</u> 64.6	<u>F 99</u> 29.5	<u>D 02</u> 5.9					5073	5050
		09-21-73 1040 (1 Foot)	226			32	<u>64</u> 130	<u>D 62</u> 57.5	<u>D 05</u> 28.3	<u>F 56</u> 14.2					5073	5050
		09-21-73 1135 (40 Feet)	192			96	<u>32</u> 64	<u>F 99</u> 33.3	<u>D 55</u> 33.3	<u>F 52</u> 16.7	<u>D 03</u> 16.7				5073	5050
		09-21-73 1145 (46 Feet)	96			96		<u>F 56</u> 100							5073	5050
A5 L 014.9 106.4	LAKE ALMANOR, EAST ARM, NEAR PRATTVILLE	10-25-72 0840 (7 Feet)	1512	64	128	1096	<u>128</u> 96	<u>F 99</u> 66.1	<u>F 56</u> 6.4	<u>D 71</u> 6.4	<u>B 03</u> 4.2	<u>D 06</u> 4.2	<u>F 56</u> 4.2	5050	5050	
A5 L 015.1 104.8	LAKE ALMANOR EASTERLY SHORE	06-27-73 0955 (* 1,9)	320	32		160	<u>96</u> 32	<u>F 99</u> 30.0	<u>D 03</u> 30.0	<u>F 56</u> 20.0	<u>B 03</u> 10.0	<u>D 71</u> 10.0		5050	5050	
		08-15-73 1655 (* 1,14,27)	256		96	160		<u>F 99</u> 62.5	<u>G 19</u> 37.5					5050	5050	
A5 L 015.5 105.0	LAKE ALMANOR NEAR LASSEN VIEW	10-25-72 0755 (7 Feet)	1586	130	64	1264	<u>32</u> 96	<u>F 99</u> 75.7	<u>B 03</u> 8.2	<u>D 71</u> 4.0	<u>F 02</u> 2.0	<u>F 56</u> 2.0	<u>G 02</u> 2.0	5050	5050	
A5 L 015.5 111.1	LAKE ALMANOR, WEST ARM, CENTER	04-17-73 1000 (* 0-18)	2238		32	1564	<u>610</u> 32	<u>F 99</u> 67.0	<u>D 03</u> 27.3	<u>F 56</u> 2.9	<u>G 19</u> 1.4	<u>D 65</u> 1.4		5050	5050	
		05-22-73 1015 (36 Feet)	764		32	604	<u>0</u> 128	<u>F 99</u> 70.6	<u>F 56</u> 8.4	<u>D 65</u> 8.4	<u>G 19</u> 4.2	<u>D 55</u> 4.2	<u>D 62</u> 4.2	5073	5050	
		05-22-73 1100 (* 1,17,33,38)	578		32	514	<u>32</u> 0	<u>F 99</u> 77.9	<u>F 56</u> 11.1	<u>G 02</u> 5.5	<u>D 03</u> 5.5			5073	5050	
		06-27-73 0835 (10 Feet)	516	260	64	160	<u>32</u> 0	<u>B 03</u> 50.4	<u>F 99</u> 31.0	<u>G 19</u> 12.4	<u>D 03</u> 6.2			5050	5050	
		06-27-73 0845 (30 Feet)	518	260	32	96	<u>130</u> 0	<u>B 03</u> 50.2	<u>D 03</u> 25.1	<u>F 99</u> 12.4	<u>G 12</u> 6.2	<u>F 56</u> 6.2		5050	5050	
		06-27-73 0855 (* 1,10,20,25,30)	416	160		32	<u>128</u> 96	<u>B 03</u> 38.5	<u>D 03</u> 23.1	<u>D 62</u> 15.4	<u>F 99</u> 7.7	<u>D 05</u> 7.7	<u>D 60</u> 7.7	5050	5050	
		07-12-73 -- (* 1,13,17,23)	1250	450	32	284	<u>484</u> 0	<u>B 03</u> 36.0	<u>D 05</u> 33.6	<u>F 99</u> 17.6	<u>F 56</u> 5.1	<u>D 03</u> 5.1	<u>G 33</u> 2.6	5073	5050	
		07-19-73 0915 (10 Feet)	324			260	<u>32</u> 32	<u>F 99</u> 80.2	<u>D 03</u> 9.9	<u>D 71</u> 9.9				5050	5050	
		07-19-73 0920 (40 Feet)	1024	260	130	254	<u>96</u> 284	<u>B 03</u> 25.4	<u>D 62</u> 21.5	<u>F 99</u> 18.5	<u>G 12</u> 12.7	<u>D 03</u> 9.4	<u>F 56</u> 6.3	5050	5050	
		07-19-73 0925 (* 1,5,10,20,40)	830	480		286	<u>32</u> 32	<u>B 03</u> 57.8	<u>F 99</u> 22.9	<u>F 56</u> 7.7	<u>F 52</u> 3.9	<u>D 05</u> 3.9	<u>D 55</u> 3.9	5050	5050	
		07-25-73 1400 (* 1,13,28,33)	64			64		<u>F 56</u> 100						5073	5050	
		08-14-73 1225 (30 Feet)	762	96		220	<u>0</u> 446	<u>D 71</u> 45.9	<u>F 99</u> 28.9	<u>B 03</u> 12.6	<u>D 57</u> 4.2	<u>D 60</u> 4.2	<u>D 66</u> 4.2	5050	5050	
		08-14-73 1120 (* 1,5,10,15,20,25,30,33)	642	32		386	<u>0</u> 224	<u>F 99</u> 45.2	<u>D 71</u> 24.9	<u>F 56</u> 15.0	<u>B 03</u> 5.0	<u>D 57</u> 5.0	<u>D 62</u> 5.0	5050	5050	
09-21-73 1130 (* 1,5,10,17)	960				<u>382</u> 578	<u>D 71</u> 46.9	<u>D 05</u> 36.5	<u>D 65</u> 6.7	<u>D 06</u> 3.3	<u>D 70</u> 3.3	<u>D 60</u> 3.3	5073	5050			
A5 L 015.9 111.3	LAKE ALMANOR, UPPER WEST ARM, NEAR CHESTER	10-25-72 1345 (5 Feet)	860	32		636	<u>96</u> 96	<u>F 99</u> 62.8	<u>F 56</u> 11.2	<u>D 71</u> 11.2	<u>B 51</u> 3.7	<u>D 03</u> 3.7	<u>D 05</u> 3.7	5050	5050	

* = Composite of samples from depths listed (in feet).

TABLE D-10(Cont.)

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lab
			Total	B1-Gr	Green	Flog	Diatoms C P	1	2	3	4	5	6		
A5 L 017.0 112.2	LAKE ALMANOR WEST ARM, NEAR CHESTER	10-25-72 1311 (2 Feet)	4420	128	64	3128	$\frac{420}{680}$	$\frac{F 99}{67.8}$	$\frac{D 03}{9.5}$	$\frac{D 57}{2.9}$	$\frac{D 65}{2.9}$	$\frac{D 70}{2.9}$	$\frac{D 75}{2.9}$	5050	5050
		05-22-73 1200 (10 Feet)	1496			1432	$\frac{32}{32}$	$\frac{F 99}{93.5}$	$\frac{F 56}{2.1}$	$\frac{D 03}{2.1}$	$\frac{D 65}{2.1}$			5073	5050
A5 L 017.3 111.6	LAKE ALMANOR IN NORTH FORK FEATHER RIVER ARM	10-25-72 1240 (6 Feet)	1310	96	32	1054	$\frac{32}{96}$	$\frac{F 99}{75.6}$	$\frac{D 71}{7.3}$	$\frac{B 51}{4.9}$	$\frac{F 56}{4.9}$	$\frac{B 03}{2.4}$	$\frac{G 02}{2.4}$	5050	5050
A5 L 017.6 110.0	LAKE ALMANOR NEAR GOULD SWAMP	10-25-72 1155 (6 Feet)	1254	96	64	1030	$\frac{32}{32}$	$\frac{F 99}{59.0}$	$\frac{F 56}{12.8}$	$\frac{F 02}{10.4}$	$\frac{B 03}{7.7}$	$\frac{D 03}{2.6}$	$\frac{G 19}{2.6}$	5050	5050
A5 L 017.6 112.0	LAKE ALMANOR NEAR MUD CREEK MOUTH	06-27-73 0815 (* 1,13)	1084	380			$\frac{96}{608}$	$\frac{D 65}{44.3}$	$\frac{B 51}{20.3}$	$\frac{B 03}{14.8}$	$\frac{D 05}{5.9}$	$\frac{D 55}{5.9}$	$\frac{D 03}{3.0}$	5050	5050
		08-14-73 1020 (14 Feet)	608	382		162	$\frac{0}{64}$	$\frac{B 51}{57.4}$	$\frac{F 99}{21.4}$	$\frac{D 71}{10.5}$	$\frac{B 03}{5.3}$	$\frac{F 56}{5.3}$		5050	5050
		08-14-73 1035 (* 1,8,14)	1344	706		220	$\frac{290}{128}$	$\frac{B 03}{45.4}$	$\frac{D 05}{21.6}$	$\frac{F 99}{16.4}$	$\frac{B 51}{7.1}$	$\frac{D 62}{4.8}$	$\frac{D 57}{2.4}$	5050	5050
A5 L 018.9 111.7	LAKE ALMANOR, MUD CREEK ARM ABOVE CAUSEWAY	07-18-73 1600	13544	13000	384	64	$\frac{96}{0}$	$\frac{B 51}{95.9}$	$\frac{G 12}{2.4}$	$\frac{G 19}{0.5}$	$\frac{F 56}{0.5}$	$\frac{D 03}{0.5}$	$\frac{D 05}{0.2}$	5050	5050
B0 7020.00	SAN JOAQUIN RIVER NEAR VERNALIS	03-06-73 1605	2714	96	572	672	$\frac{452}{922}$	$\frac{F 99}{23.6}$	$\frac{D 70}{18.8}$	$\frac{D 03}{15.5}$	$\frac{G 02}{14.0}$	$\frac{D 65}{8.1}$	$\frac{G 22}{3.5}$	5001	5050
B9 D 748.3 126.9	OLD RIVER AT TRACY ROAD BRIDGE	03-06-73 1330	2266	32	224	636	$\frac{574}{800}$	$\frac{F 99}{23.8}$	$\frac{D 03}{22.5}$	$\frac{D 65}{16.8}$	$\frac{D 70}{11.5}$	$\frac{G 02}{4.2}$	$\frac{F 56}{4.2}$	5001	5050
B9 D 749.8 133.2	WEST CANAL AT MOUTH OF INTAKE TO CLIFTON COURT FOREBAY	03-06-73 1510	2796		388	444	$\frac{1386}{578}$	$\frac{D 03}{39.3}$	$\frac{F 99}{13.6}$	$\frac{D 65}{10.4}$	$\frac{G 02}{9.3}$	$\frac{D 05}{6.8}$	$\frac{D 62}{5.7}$	5001	5050
B9 D 753.5 129.3	MIDDLE RIVER AT BORDEN HIGHWAY	03-06-73 1230	1446	32	162	354	$\frac{576}{322}$	$\frac{D 03}{33.2}$	$\frac{F 99}{20.1}$	$\frac{G 02}{9.0}$	$\frac{D 65}{9.0}$	$\frac{D 62}{6.6}$	$\frac{D 70}{4.4}$	5001	5050
B9 D 758.7 122.9	SAN JOAQUIN RIVER AT BUCKLEY COVE	03-06-73 1115	2150	32	32	1032	$\frac{316}{738}$	$\frac{F 99}{46.5}$	$\frac{D 65}{20.9}$	$\frac{D 03}{10.2}$	$\frac{D 62}{4.5}$	$\frac{D 66}{4.5}$	$\frac{D 70}{4.5}$	5001	5050
B9 D 802.7 123.3	DISAPPOINTMENT SLOUGH NEAR LODI	03-06-73 0940	5612		130	3690	$\frac{520}{1272}$	$\frac{F 99}{62.4}$	$\frac{D 65}{9.6}$	$\frac{D 70}{6.8}$	$\frac{D 62}{5.7}$	$\frac{D 03}{4.6}$	$\frac{F 56}{3.4}$	5001	5050
B9 D 805.2 126.0	WHITE SLOUGH NEAR LODI	03-06-73 0835	3770	32	226	3190	$\frac{194}{128}$	$\frac{F 99}{79.6}$	$\frac{F 56}{5.0}$	$\frac{G 22}{3.4}$	$\frac{D 03}{3.4}$	$\frac{G 02}{1.7}$	$\frac{D 02}{1.7}$	5001	5050
B9 D 807.0 129.9	MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND	03-07-73 1500	1432			734	$\frac{130}{538}$	$\frac{F 99}{47.8}$	$\frac{D 65}{15.7}$	$\frac{D 66}{13.6}$	$\frac{D 02}{9.2}$	$\frac{F 56}{4.6}$	$\frac{D 62}{4.6}$	5001	5050
B9 D 808.8 125.8	SYCAMORE SLOUGH AT DRAIN	03-07-73 1315	2906		160	2586	$\frac{128}{32}$	$\frac{F 99}{75.7}$	$\frac{F 56}{10.0}$	$\frac{G 02}{3.3}$	$\frac{F 03}{3.3}$	$\frac{D 03}{3.3}$	$\frac{G 15}{1.1}$	5001	5050
B9 D 810.1 127.9	HOG SLOUGH NEAR THORNTON	03-07-73 1150	5648		192	5232	$\frac{32}{192}$	$\frac{F 99}{92.1}$	$\frac{D 65}{2.8}$	$\frac{G 02}{1.7}$	$\frac{G 15}{0.6}$	$\frac{G 22}{0.6}$	$\frac{G 23}{0.6}$	5001	5050
B9 D 812.3 126.8	BEAVER SLOUGH NEAR THORNTON	08-07-73 1055	11858	9600	160	1360	$\frac{128}{610}$	$\frac{B 55}{81.0}$	$\frac{F 99}{9.3}$	$\frac{F 56}{2.2}$	$\frac{D 70}{2.2}$	$\frac{D 66}{1.6}$	$\frac{D 65}{1.3}$	5001	5050
B9 D 815.3 126.3	MOKELUMNE RIVER NEAR THORNTON	03-07-73 1010	926		96	540	$\frac{64}{226}$	$\frac{F 99}{58.3}$	$\frac{D 65}{14.0}$	$\frac{G 02}{10.4}$	$\frac{D 05}{6.9}$	$\frac{D 66}{3.5}$	$\frac{D 62}{3.5}$	5001	5050
B9 D 819.1 130.1	SNODGRASS SLOUGH AT SOUTHERN PACIFIC RAILROAD BRIDGE	03-07-73 0920	1982	64	128	990	$\frac{320}{480}$	$\frac{F 99}{32.3}$	$\frac{F 56}{17.7}$	$\frac{D 03}{16.1}$	$\frac{D 70}{9.6}$	$\frac{D 66}{6.6}$	$\frac{D 65}{4.8}$	5001	5050
B9 D 820.7 132.7	SACRAMENTO RIVER AT GREENE'S LANDING	03-07-73 0840	804		64	580	$\frac{32}{128}$	$\frac{F 99}{72.1}$	$\frac{D 65}{11.9}$	$\frac{G 02}{8.0}$	$\frac{D 05}{4.0}$	$\frac{D 70}{4.0}$	5001	5050	

* = Composite of samples from depths listed (in feet)

ZOOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Zooplankton (number per liter)				Most Abundant Zooplankton (genus %)				Samp	Lab
			Total	Rotifer	Crust	Misc.	1	2	3	4		
A5 L 014.3 106.5	LAKE ALMANOR, EAST ARM, CENTER	04-17-73 1400 (* 0-18)	43	5	38		C 97	C 02	R 99		5050	5050
A5 L 0155.5 111.1	LAKE ALMANOR, WEST ARM, CENTER	04-17-73 1000 (* 0-18)	17	10	7		R 99	C 02	C 51		5050	5050

* Composite of samples from depths listed (in feet).

Codes and Abbreviations

Total - Total Zooplankton per liter	Samp - 5050 - Department of Water Resources (Sampler)
Crust - Crustacea	Lab - 5050 - Department of Water Resources (Laboratory)
Misc - Miscellaneous	

Most Abundant Zooplankton

Rotifers

R 99 Unidentified Rotifers

Crustacea

C 02 Nauplii
C 51 Cyclops
C 97 Unidentified Crustacea Egg

Appendix E

GROUND WATER QUALITY DATA

This appendix presents ground water quality data collected during the period from October 1, 1972, through September 30, 1973. The data were collected from a number of major ground water sources in Northeastern California in cooperation with other state, local, and federal agencies. During the 1973 water year, 595 wells were sampled in 40 ground water basins and subbasins or subareas.

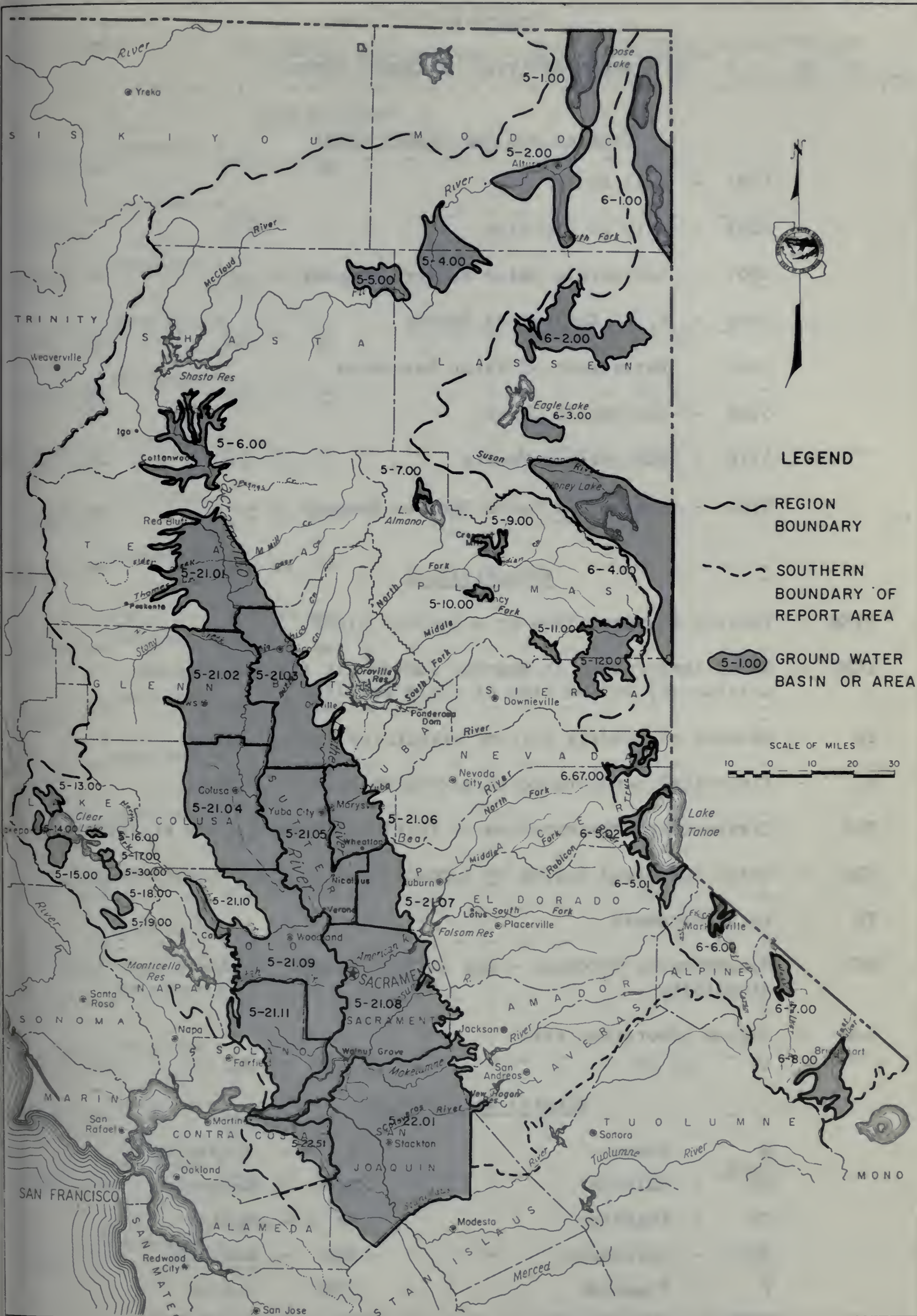
At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 239.

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6- 4.00	Honey Lake Valley	424
6- 5.00	Tahoe Valley	
6- 5.01	South Tahoe Valley	426
6- 5.02	North Tahoe Valley	426
6- 6.00	Carson Valley	426
6- 7.00	Topaz Valley	427
6- 8.00	Bridgeport Valley	427
6-67.00	Truckee Valley	427



GROUND WATER BASINS IN NORTHEASTERN CALIFORNIA

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

Sampler and Lab Agency Codes

- 0001 - Well Owner
- 4203 - City of Stockton
- 4701 - California Water Service Company
- 5000 - U. S. Geological Survey
- 5050 - Department of Water Resources
- 5108 - Sacramento County
- 5110 - San Joaquin County
- 5701 - California Water Service Company

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- TEMP - Water temperature in degrees Fahrenheit (F) and degrees Celsius (C) at the time of field sampling
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- EC - Electrical conductance in micromhos at 25° Celsius
- TDS - Gravimetric determination of total dissolved solids at 180° C
- SUM - Total dissolved solids by summation of analyzed constituents
- TH - Total hardness
- NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
- SAR - Sodium adsorption ratio

Mineral Constituents

- | | | | | | |
|------|---|-------------|------|---|-----------|
| B | - | Boron | K | - | Potassium |
| CA | - | Calcium | MG | - | Magnesium |
| CL | - | Chloride | NA | - | Sodium |
| C03 | - | Carbonate | N03 | - | Nitrate |
| F | - | Fluoride | SI02 | - | Silica |
| HC03 | - | Bicarbonate | S04 | - | Sulfate |

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
			PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TDS SUM	TH NCH	SAR
5 5-01		CENTRAL VALLEY REGION GOOSE LAKE VALLEY																	
07/31/73 1440	5050 5050	64.0F 17.8C	8.3	210 202	--	--	--	--	--	--	--	3.3 .09	--	--	--	--	--	51	
07/31/73 1455	5050	58.0F 14.4C	7.0	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73 1535	5050	67.0F 19.4C	7.4	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73 1510	5050 5050	60.0F 15.5C	7.1	280 266	--	--	--	--	--	--	--	1.4 .04	3.1 .05	--	--	--	--	110	
07/31/73 1705	5050 5050	64.0F 17.8C	7.1	180 164	--	--	--	--	--	--	--	5.4 .15	--	--	--	--	--	57	
07/31/73 1625	5050 5050	63.0F 17.2C	7.6 8.1	235 216	--	--	--	--	0 .00	133 2.18	--	2.8 .08	--	--	--	--	--	82	
07/31/73 1535	5050 5050	72.0F 22.2C	8.4 8.1	360 365	--	--	73 3.18 96	--	0 .00	123 2.02	--	26 .73	--	--	--	--	--	6 13.0	
07/31/73 1800	5050	55.0F 12.8C	6.8	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5-02		ALTURAS BASIN																	
08/02/73 0940	5050	77.0F 25.0C	7.7	265	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/02/73 0905	5050	70.0F 21.1C	8.1	160	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/02/73 0925	5050	64.0F 17.8C	7.3	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73 1310	5050	70.0F 21.1C	7.4	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/02/73 0820	5050 5050	63.0F 17.2C	7.3	750 773	--	--	--	--	--	--	--	13 .37	--	--	--	--	--	376	
07/31/73 1230	5050	63.0F 17.2C	8.1	445	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73 1250	5050	62.0F 16.7C	7.3	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/31/73 1400	5050 5050	66.0F 18.9C	7.4	370 379	--	--	--	--	--	--	--	8.2 .23	9.3 .15	--	--	--	--	149	
08/02/73 0745	5050	65.0F 18.3C	7.1	560	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/03/73 0755	5050 5050	69.0F 20.5C	7.3	375 366	--	--	--	--	--	--	--	4.8 .14	--	--	--	--	--	126	
5-04		BIG VALLEY																	
07/31/73 0845	5050	65.0F 18.3C	7.6	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH
5-04		CENTRAL VALLEY REGION BIG VALLEY															
07/31/73 0945	5050	37N/07E-13R01 M 60.0F 15.5C	7.1 215	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 0810	5050	38N/07E-02P01 M 67.0F 19.4C	7.1 520	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 0825	5050	38N/07E-23D01 M 68.0F 20.0C	7.1 275	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/73 1510	5050 5050	38N/07E-28N09 M 60.0F 15.5C	7.1 210 173	--	--	--	--	--	--	--	1.2 .03	9.3 .15	--	--	--	--	58
07/31/73 1025	5050	38N/08E-17K01 M 63.0F 17.2C	7.5 215	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 1010	5050	38N/08E-30R01 M 68.0F 20.0C	7.1 740	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 1110	5050	38N/09E-21L01 M 72.0F 22.2C	7.6 330	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 0750	5050	39N/07E-13001 M 63.0F 17.2C	6.9 210	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/31/73 0700	5050 5050	39N/08E-23A02 M 58.0F 14.4C	6.8 240 8.2 235	13 .65 28	9.6 .79 34	18 .78 33	4.3 .11 5	0 .00	95 1.56 66	27 .56 24	6.2 .17 7	3.9 .06 3	.00 --	--	189 129	72 0	0.9
07/31/73 0635	5050	39N/09E-28F20 M 72.0F 22.2C	7.3 180	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-05		FALL RIVER VALLEY															
07/30/73 1615	5050 5050	37N/05E-01C01 M 63.0F 17.2C	8.3 215 8.3 206	16 .80 37	7.0 .58 27	17 .74 34	2.4 .06 3	0 .00	117 1.92 88	6.6 .14 6	4.3 .12 5	.8 .01	.00 --	--	136 112	69 0	0.9
07/30/73 1200	5050 5050	37N/05E-19P02 M 63.0F 17.2C	7.1 505 451	--	--	--	--	--	--	--	3.1 .09	36.0 .58	--	--	--	--	117
07/30/73 1515	5050 5050	37N/05E-24F01 M 60.0F 15.5C	8.2 260 8.3 236	17 .85 34	7.4 .61 25	22 .96 39	1.9 .05 2	0 .00	131 2.15 85	4.6 .10 4	4.3 .12 5	9.5 .15 6	.00 --	--	155 131	73 0	1.1
07/30/73 1535	5050	37N/06E-19L01 M 60.0F 15.5C	7.9 235	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/73 1240	5050	38N/03E-24F01 M 54.0F 12.2C	6.8 160	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/73 1410	5050 5050	38N/04E-27Q01 M 58.0F 14.4C	8.1 220 8.3 176	10 .50 27	6.3 .52 28	17 .74 40	2.9 .07 4	0 .00	97 1.59 87	3.3 .07 4	5.7 .16 9	.8 .01 1	.00 --	--	129 94	51 0	1.0
07/30/73 1305	5050	38N/04E-30M01 M 55.0F 12.8C	6.9 240	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/30/73 1630	5050	38N/06E-31D01 M 62.0F 16.7C	8.1 195	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-06		REDDING BASIN															
07/02/73 1200	5050	29N/03W-05G02 M 60.0F 15.5C	6.3 159	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER						
					PERCENT REACTANCE VALUE								MILLIEQUIVALENTS PER LITER						
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	SAR	
				CENTRAL VALLEY REGION REDDING BASIN															
07/02/73 1425	5050	73.0F 22.8C	6.6	291	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 0940	5050	66.0F 18.9C	7.1	191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 1335	5050	68.0F 20.0C	7.0	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 1230	5050	63.0F 17.2C	6.5	255	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 1100	5050	60.0F 15.5C	6.5	355	27	23	12	1.1	0	151	41	4.9	20.0	.00	--	273	161		
	5050		8.1	363	1.35	1.89	.52	.03	.00	2.47	.85	.14	.32	--	203	39	0.4		
					36	50	14	1		65	22	4	8						
07/09/73 1230	5050	71.0F 21.6C	7.0	140	--	--	--	--	0	71	--	3.1	--	--	--	--	--	--	49
	5050		7.4	132					.00	1.16		.09							
07/09/73 1250	5050	66.0F 18.9C	7.0	290	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 0955	5050	68.0F 20.0C	6.9	187	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/02/73 1020	5050	68.0F 20.0C	7.1	182	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/03/73 1055	5050	68.0F 20.0C	6.6	214	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/03/73 1150	5050	71.0F 21.6C	6.4	182	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/03/73 1240	5050	86.0F 30.0C	7.4	359	--	--	--	--	0	136	--	49	--	--	--	--	--	--	77
	5050		8.0	372					.00	2.23		1.38							
07/09/73 0920	5050	70.0F 21.1C	7.1	220	--	--	--	--	0	122	--	8.0	--	--	--	--	--	--	77
	5050		7.6	217					.00	2.00		.23							
07/09/73 0940	5050	68.0F 20.0C	7.0	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/73 1000	5050	66.0F 18.9C	6.8	120	6.3	6.0	7.2	.2	0	46	11	2.4	8.0	.00	--	111	40		
	5050		7.9	111	.31	.49	.31	.01	.00	.75	.23	.07	.13	--	64	3	0.5		
					28	44	28	1		64	19	6	11						
07/09/73 1020	5050		6.7	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/73 1200	5050	76.0F 24.4C	7.2	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/03/73 1025	5050	68.0F 20.0C	7.1	369	--	--	--	--	--	--	--	25	10.0	--	--	--	--	--	114
	5050			373								.71	.16						
07/03/73 1210	5050	69.0F 20.5C	6.7	232	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
				LAKE ALMANOR VALLEY															
09/21/73 0830	5050	51 F 11 C	7.1 7.5	190 186	--	--	4.0	--	0	120	--	.0	--	--	--	--	--	--	86
	5050						.17		.00	1.97		.00							0.2
							9												

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER			
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR
5		CENTRAL VALLEY REGION																
5-07		LAKE ALMANOR VALLEY																
28N/07E-18D01		M																
09/21/73	5050	60	F	7.3	70	--	--	2.8	--	0	41	--	.0	--	--	--	27	
0800	5050	16	C	7.2	68			.12		.00	.67		.00					0.2
								18										
28N/07E-18M01		M																
09/21/73	5050	60	F	7.9	62	--	--	2.5	--	0	29	--	.2	--	--	--	19	
0700	5050	16	C	7.2	53			.11		.00	.48		.01					0.3
								22										
5-09		INDIAN VALLEY																
26N/10E-04E01		M																
09/20/73	5050	54	F	7.2	205	--	--	20	--	0	130	--	.0	--	--	--	67	
1530	5050	12	C	7.8	203			.87		.00	2.13		.00					1.1
								39										
26N/10E-06E01		M																
09/20/73	5050	57	F	7.5	400	--	--	50	--	0	123	--	59	--	--	--	84	
1415	5050	14	C	7.7	407			2.18		.00	2.02		1.66					2.4
								56										
26N/10E-16P01		M																
09/20/73	5050	57	F	7.6	500	--	--	47	--	0	227	--	30	--	--	--	159	
1600	5050	14	C	7.9	508			2.04		.00	3.72		.85					1.6
								39										
26N/10E-18M01		M																
09/20/73	5050	64	F	7.9	250	--	--	11	--	0	156	--	.0	--	--	--	111	
1200	5050	18	C	7.8	251			.48		.00	2.56		.00					0.5
								18										
26N/10E-23A01		M																
09/19/73	5050	54	F	6.9	205	--	--	5.0	--	0	119	--	.0	--	--	--	99	
1630	5050	12	C	7.5	211			.22		.00	1.95		.00					0.2
								10										
27N/09E-35P01		M																
09/20/73	5050	61	F	7.3	235	--	--	9.2	--	0	155	--	.4	--	--	--	108	
1315	5050	16	C	7.8	236			.40		.00	2.54		.01					0.4
								16										
5-10		AMERICAN VALLEY																
24N/09E-02A01		M																
09/19/73	5050			6.9	190	--	--	12	--	0	121	--	.0	--	--	--	76	
1340	5050			7.1	196			.52		.00	1.98		.00					0.6
								25										
24N/09E-10H01		M																
09/19/73	5050	52	F	6.7	160	--	--	2.2	--	0	96	--	.0	--	--	--	77	
1425	5050	11	C	7.6	153			.10		.00	1.57		.00					0.1
								6										
24N/09E-16H01		M																
09/19/73	5050	48	F	6.1	92	--	--	5.4	--	0	50	--	1.6	--	--	--	44	
1100	5050	9	C	6.6	87			.23		.00	.82		.05					0.4
								21										
24N/10E-06N01		M																
09/19/73	5050	57	F	7.5	400	--	--	27	--	0	270	--	5.7	--	--	--	170	
1300	5050	14	C	7.7	420			1.17		.00	4.43		.16					0.9
								26										
24N/10E-08L01		M																
09/19/73	5050	55	F	6.9	240	--	--	8.2	--	0	148	--	1.6	--	--	--	110	
1230	5050	13	C	7.8	238			.36		.00	2.43		.05					0.3
								14										
24N/10E-18D01		M																
09/19/73	5050	56	F	6.3	105	--	--	2.8	--	0	52	--	1.2	--	--	--	45	
1200	5050	13	C	7.3	102			.12		.00	.85		.03					0.2
								12										
24N/10E-19801		M																
09/19/73	5050	53	F	6.9	120	--	--	5.4	--	0	67	--	.9	--	--	--	56	
1015	5050	12	C	7.0	116			.23		.00	1.10		.03					0.3
								17										
5-11		MOHAWK VALLEY																
22N/12E-09Q01		M																
09/18/73	5050	52	F	7.1	320	--	--	15	--	0	111	--	.0	--	--	--	97	
1730	5050	11	C	7.3	261			.65		.00	1.82		.00					0.7
								25										
22N/13E-30R01		M																
09/18/73	5050	58	F	7.5	375	--	--	68	--	0	100	--	22	--	--	--	34	
1615	5050	14	C	7.8	387			2.96		.00	1.64		.62					5.1
								81										
5-12		SIERRA VALLEY																
21N/14E-02H		M																
04/12/73	5050	61	F	7.3	1000	--	--	--	--	--	--	--	--	--	2.60	1.4		
1205	5050	16	C		1370										--	--		
21N/14E-02H02		M																
04/12/73	5050	52	F	7.3	850	--	--	--	--	--	--	--	--	--	1.60	2.0		
1220	5050	11	C		1110										--	--		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER						
					PERCENT REACTANCE VALUE				MILLIEQUIVALENTS PER LITER				B	F	TDS SUM	TH NCH	SAR		
					CA	MG	NA	K	CO3	HCO3	SO4	CL						NO3	
5 5-12					CENTRAL VALLEY REGION SIERRA VALLEY														
04/12/73 1145	5050 5050	M	58 F 14 C	7.3 750	--	--	--	--	--	--	--	--	--	--	1.20	.5			
04/12/73 1100	5050 5050	M	57 F 14 C	7.3 750 945	--	--	--	--	--	--	--	--	--	--	.90	1.1			
10/03/72 1000	5050 5050	M	54.0F 12.2C	7.3 670 714	--	--	--	--	0 .00	161 2.64	--	--	--	--	.80	1.0		142	
04/11/73 1750	5050 5050	M	41 F 5 C	6.7 920 1360	--	--	--	--	--	--	--	--	--	--	.40	.3			
04/10/73 1310	5050 5050	M	85 F 29 C	8.2 230 258	--	--	56	--	0 .00	129 2.11	--	--	--	--	1.10	.5			
04/11/73 1630	5050 5050	M	79 F 26 C	7.3 300 355	--	--	78	--	0 .00	170 2.79	--	--	--	--	2.10	.8			
04/12/73 1415	5050 5050	M	53 F 12 C	7.3 240 264	--	--	--	--	0 .00	134 2.20	--	--	--	--	.00	.1			
10/03/72 1545	5050 5050	M	164.0F 73.3C	7.7 2100 2290	--	--	--	--	0 .00	42 .69	--	--	--	--	6.40	2.2		133	
04/12/73 0930	5050 5050	M	103 F 39 C	7.5 1400 2080	--	--	--	--	0 .00	104 1.70	--	--	--	--	--	--			
11/02/72 1200	5050 5050	M	103.0F 39.4C	7.3 1850 2030	--	--	--	--	35 1.17	4 .07	--	--	--	--	5.60	.4		67	
04/11/73 1050	5050 5050	M	81 F 27 C	7.3 480 572	--	--	--	--	--	--	--	--	--	--	1.40	.6			
04/10/73 0920	5050 5050	M	58 F 14 C	7.3 330	--	--	--	--	--	--	--	--	--	--	.40	.4			
04/10/73 1400	5050 5050	M	184 F 84 C	8.1 2540	--	--	--	--	0 .00	47 .77	--	--	--	--	6.70	4.0		103	
10/03/72 1330	5050 5050	M	61.0F 16.1C	7.1 350 368	--	--	--	--	0 .00	160 2.62	--	--	--	--	1.70	.2		146	
10/03/72 1215	5050 5050	M	57.0F 13.9C	7.1 380 397	--	--	--	--	0 .00	145 2.38	--	--	--	--	.00	.1		149	
5-13					UPPER LAKE VALLEY														
07/29/73 1145	5050	M	67.0F 19.4C	6.5 195	--	--	--	--	--	--	--	--	--	--	--	--			
07/24/73 1125	5050	M	73.0F 22.8C	7.1 295	--	--	--	--	--	--	--	--	--	--	--	--			
07/24/73 1045	5050 5050	M	63.0F 17.2C	6.3 240 231	11 .55	16 1.32	14 .61	.7 .02	0 .00	141 2.31	8.4 .17	4.0 .11	.0 .00	.30	--	--	154 124	95 0	0.6
07/24/73 1000	5050 5050	M	83.0F 28.3C	7.7 280 285	24 1.20	16 1.32	10 .44	2.2 .06	0 .00	153 2.51	13 .27	10 .28	1.4 .02	.80	--	--	160 153	126 1	0.4
07/24/73 1345	5050	M	63.0F 17.2C	6.2 185	--	--	--	--	--	--	--	--	--	--	--	--			

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
				CA	MG	NA	K	PERCENT REACTANCE VALUE					B SI02	F	TDS SUM	TH NCH	SAR	
								CO3	HCO3	SO4	CL	NO3						
5 5-13		CENTRAL VALLEY REGION UPPER LAKE VALLEY																
07/24/73 1220	5050 5050	77.0F 25.0C	7.0 8.2	405 417	-- --	-- --	8.2 .36 8	-- --	0 .00	184 3.02	-- --	19 .54	-- --	-- --	-- --	198	86 0	0.3
07/24/73 1230	5050 5050	68.0F 20.0C	6.8 8.1	245 215	10 .50 22	15 1.23 54	12 .52 23	.6 .02 1	0 .00	135 2.21 93	2.8 .06 3	3.6 .10 4	.0 .00	.20	-- --	160 111	86 0	0.6
07/24/73 1245	5050	67.0F 19.4C	7.1	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/24/73 1200	5050	61.0F 16.1C	6.5	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-14		SCOTT VALLEY																
07/24/73 1600	5050 5050	66.0F 18.9C	7.1 8.2	385 296	34 1.70 51	15 1.23 37	8.2 .36 11	.9 .02 1	0 .00	178 2.92 88	10 .21 6	6.3 .18 5	1.5 .02 1	.00	-- --	155 163	145 1	0.3
07/24/73 1540	5050	62.0F 16.7C	6.9	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/24/73 1535	5050 5050	65.0F 18.3C	7.1 8.1	380 366	28 1.40 36	16 1.32 34	26 1.13 29	1.6 .04 1	0 .00	207 3.39 88	7.2 .15 4	6.7 .19 5	7.8 .13 3	.50	-- --	204 196	136 0	1.0
07/24/73 1450	5050 5050	61.0F 16.1C	6.6 8.0	245 238	--	--	7.6 .33 13	--	0 .00	130 2.13	--	3.9 .11	--	--	--	--	106	0.3
5-15		KELSEYVILLE VALLEY																
07/24/73 1845	5050 5050	60.0F 15.5C	6.9 8.5	980 854	19 .95 9	100 8.22 82	20 .87 9	1.6 .04	13 .43 4	396 6.49 62	82 1.71 16	50 1.41 14	22.0 .35 3	.20	-- --	537 503	462 113	0.4
07/25/73 0940	5050 5050	63.0F 17.2C	6.5 8.2	660 572	25 1.25 21	51 4.19 70	13 .57 9	--	0 .00	261 4.28 69	53 1.10 18	11 .31 5	29.0 .47 8	.20	-- --	316 311	271 58	0.3
07/25/73 0920	5050 5050	68.0F 20.0C	6.8 8.2	410 387	--	--	21 .91 23	--	0 .00	194 3.18	--	10 .28	--	--	--	--	153	0.7
07/25/73 0915	5050 5050	68.0F 20.0C	6.3 8.4	520 534	44 2.20 38	31 2.55 44	25 1.09 19	.3 .01	0 .00	256 4.20 73	20 .42 7	37 1.04 18	7.0 .11 2	.10	-- --	300 290	236 28	0.7
07/24/73 1855	5050 5050	64.0F 17.8C	7.1	520 504	--	--	--	--	--	--	--	20 .56	--	.50	--	--	241	--
07/25/73 0800	5050	65.0F 18.3C	6.8	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/73 0830	5050 5050	69.0F 20.5C	6.3 8.6	1100 968	19 .95 8	122 10.03 81	29 1.26 10	3.1 .08 1	29 .97 8	655 10.74 87	.6 .01	15 .42 3	12.0 .19 2	1.20	-- --	612 553	552 0	0.5
07/25/73 0900	5050	68.0F 20.0C	7.1	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/25/73 1015	5050 5050	76.0F 24.4C	6.3 8.6	695 672	19 .95 11	82 6.74 79	17 .74 9	1.9 .05 1	27 .90 11	435 7.13 84	2.1 .04	14 .39 5	2.2 .04	.00	-- --	422 379	385 0	0.4
07/25/73 1105	5050	62.0F 16.7C	7.0	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/24/73 1805	5050 5050	63.0F 17.2C	6.7 8.3	950 702	--	--	18 .78 10	--	0 .00	402 6.59	--	29 .82	--	--	--	--	371	0.4

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
			PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION																			
5-15 KELSEYVILLE VALLEY																			
07/24/73 1810	5050 5050	M	66.0F 18.9C	6.6 502	600 502	--	--	--	--	--	--	--	8.6 .24	--	.20 --	--	260		
5-16 HIGH VALLEY																			
07/24/73 0910	5050	M	63.0F 17.2C	6.3 320	320	--	--	--	--	--	--	--	--	--	--	--	--		
5-17 BURNS VALLEY																			
07/25/73 1600	5050	M	73.0F 22.8C	7.1 420	420	--	--	--	--	--	--	--	--	--	--	--	--		
07/25/73 1520	5050	M	78.0F 25.5C	6.6 240	240	--	--	--	--	--	--	--	--	--	--	--	--		
07/25/73 1445	5050	M	72.0F 22.2C	7.0 600	600	--	--	--	--	--	--	--	--	--	--	--	--		
07/25/73 1540	5050	M	77.0F 25.0C	6.6 465	465	--	--	--	--	--	--	--	--	--	--	--	--		
07/25/73 1400	5050	M	80.0F 26.6C	7.3 325	325	--	--	--	--	--	--	--	--	--	--	--	--		
5-18 COYOTE VALLEY																			
07/23/73 1800	5050 5050	M		7.3 8.1	440 443	--	--	4.4 .19 4	--	0 .00	274 4.49	--	5.7 .16	--	--	--	241 0.1		
07/23/73 1830	5050 5050	M		7.5 7.9	540 533	--	--	17 .74 12	--	0 .00	322 5.28	--	6.6 .19	--	--	--	261 0.5		
5-19 COLLAYOMI VALLEY																			
07/23/73 1630	5050 5050	M	68 F 20 C	7.3 7.8	260 264	--	--	4.6 .20 7	--	0 .00	143 2.34	--	8.3 .23	--	--	--	128 0.2		
07/23/73 1715	5050 5050	M	65 F 18 C	7.0 8.0	285 284	--	--	5.3 .23 7	--	0 .00	162 2.66	--	4.0 .11	--	--	--	142 0.2		
07/23/73 1740	5050 5050	M	64 F 18 C	6.8 7.8	195 192	--	--	3.5 .15 7	--	0 .00	113 1.85	--	3.6 .10	--	--	--	95 0.2		
5-21 SACRAMENTO VALLEY																			
5-21.01 TEHAMA COUNTY																			
06/27/73 1405	5050	M	64.0F 17.8C	7.1 346	346	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/73 1545	5050	M	68.0F 20.0C	7.7 305	305	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/73 1230	5050	M	72.0F 22.2C	7.2 296	296	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/73 1235	5050	M	75.0F 23.9C	7.2 382	382	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/73 1300	5050 5050	M	70.0F 21.1C	7.1 7.5	218 218	--	--	--	--	0 .00	82 1.34	--	18 .51	--	--	--	75		
06/18/73 1205	5050	M	66.0F 18.9C	7.0 245	245	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER						
				MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE				TDS SUM	TH NCH	SAR
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SI02					
S 5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
5-21.01		TEHAMA COUNTY																		
06/18/73	5050	66.0F	7.0	450	--	--	--	--	--	--	--	6.9	27.0	--	--			199		
1225	5050	18.9C		448								.19	.44							
06/18/73	5050	64.0F	7.5	460	--	--	--	--	--	--	--	--	--	--	--					
1440		17.8C																		
06/27/73	5050	69.0F	7.1	332	--	--	--	--	--	--	--	--	--	--	--					
1435		20.5C																		
06/18/73	5050	69.0F	7.3	263	--	--	--	--	--	--	--	--	--	--	--					
1405		20.5C																		
06/27/73	5050	68.0F	7.1	200	--	--	--	--	--	--	--	--	--	--	--					
1045		20.0C																		
06/27/73	5050	70.0F	7.0	173	--	--	--	--	--	--	--	--	--	--	--					
1115		21.1C																		
06/18/73	5050	67.0F	7.3	660	--	--	--	--	--	--	--	--	--	--	--					
1425		19.4C																		
06/27/73	5050	77.0F	7.2	146	--	--	--	--	--	--	--	--	--	--	--					
1130		25.0C																		
06/29/73	5050	72.0F	6.5	273	--	--	--	--	--	--	--	--	--	--	--					
1250		22.2C																		
06/26/73	5050	65.0F	7.1	555	--	--	--	--	--	--	--	--	--	--	--					
1325		18.3C																		
06/29/73	5050	70.0F	7.2	282	--	--	--	--	--	--	--	--	--	--	--					
1310		21.1C																		
06/29/73	5050	71.0F	6.6	369	--	--	--	--	--	--	--	--	--	--	--					
1325		21.6C																		
06/26/73	5050	70.0F	7.0	546	39	41	22	.7	0	288	29	27	10.0	.00	--	350	268			
1245	5050	21.1C	8.2	576	1.95	3.37	.96	.02	.00	4.72	.60	.76	.16	--	--	310	30	0.6		
					31	53	15			76	10	12	3							
06/26/73	5050	69.0F	7.5	382	--	--	--	--	--	--	--	--	--	--	--					
1040		20.5C																		
06/26/73	5050	76.0F	7.1	364	--	--	--	--	--	--	--	--	--	--	--					
1105		24.4C																		
06/27/73	5050	77.0F	7.1	523	59	27	13	.8	0	242	54	13	20.0	.00	--	310	259			
1020	5050	25.0C	8.1	544	2.94	2.22	.57	.02	.00	3.97	1.12	.37	.32	--	--	306	60	0.4		
					51	39	10			69	19	6	6							
06/29/73	5050	87.0F	7.0	328	--	--	--	--	--	--	--	--	--	--	--					
1405		30.5C																		
06/27/73	5050	85.0F	7.2	214	12	13	14	.3	0	120	8.1	4.9	6.8	.00	--	166	85			
0945	5050	29.4C	7.8	218	.60	1.07	.61	.01	.00	1.97	.17	.14	.11	--	--	118	0	0.7		
					26	47	27			82	7	6	5							
06/29/73	5050	66.0F	7.1	510	--	--	--	--	--	--	--	23	--	.10	--			251		
1050	5050	18.9C		530								.65								
06/29/73	5050	70.0F	7.2	218	--	--	--	--	--	--	--	--	--	--	--					
1150		21.1C																		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
				MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
5 5-21																		
5-21.01 TEHAMA COUNTY																		
06/29/73	5050	63.0F	7.1	309	--	--	--	--	--	--	--	13	--	.20	--	134		
1215	5050	17.2C		312								.37		--				
06/26/73	5050	77.0F	7.1	368	--	--	--	--	--	--	--	--	--	--	--			
1420		25.0C												--				
06/26/73	5050	72.0F	7.3	255	--	--	--	--	--	--	7.3	6.5	--	--	--	106		
0940	5050	22.2C		260							.21	.10		--				
06/26/73	5050	76.0F	7.1	350	--	--	--	--	--	--	--	--	--	--	--			
1355		24.4C												--				
06/26/73	5050	68.0F	7.1	173	--	--	--	--	--	--	--	--	--	--	--			
1005		20.0C												--				
06/26/73	5050	72.0F	7.7	357	--	--	--	--	--	--	--	--	--	--	--			
1335		22.2C												--				
06/26/73	5050		7.9	346	--	--	--	--	--	206	--	13	4.5	--	--	153		
1330	5050			379						3.38		.37	.07					
06/26/73	5050	72.0F	7.6	382	--	--	--	--	--	--	--	--	--	--	--			
1305		22.2C												--				
06/29/73	5050	77.0F	7.6	364	29	20	24	1.1	0	240	7.9	4.4	4.3	.00	--	243	157	
0950	5050	25.0C	8.1	387	1.45	1.64	1.04	.03	.00	3.93	.16	.12	.07	--	--	209	0	0.8
					35	39	25	1		92	4	3	2					
06/25/73	5050	63.0F	6.8	314	--	--	--	--	--	--	--	--	--	--	--			
1445		17.2C												--				
06/25/73	5050	71.0F	7.2	350	--	--	--	--	--	--	--	--	--	--	--			
1230		21.6C												--				
06/25/73	5050	72.0F	7.7	273	--	--	--	--	--	--	--	--	--	--	--			
1245		22.2C												--				
06/25/73	5050	63.0F	7.1	632	31	29	45	1.1	4.0	150	17	104	16.0	1.00	--	444	198	
1330	5050	17.2C	8.4	637	1.55	2.38	1.96	.03	.13	2.46	.35	2.93	.26	--	--	322	67	1.4
					26	40	33	1	2	40	6	48	4					
06/25/73	5050	68.0F	7.0	355	--	--	--	--	--	--	--	--	--	--	--			
1300		20.0C												--				
08/03/73	5050	66.0F	7.0	555	40	32	21	1.8	6.0	187	26	15	74.0	.10	--	396	230	
0930	5050	18.9C	8.5	547	2.00	2.63	.91	.05	.20	3.06	.54	.42	1.19	--	--	308	69	0.6
					36	47	16	1	4	57	10	8	22					
06/25/73	5050	80.0F	7.2	455	33	23	32	2.6	0	207	16	40	11.0	.60	--	305	178	
1020	5050	26.6C	8.2	490	1.65	1.89	1.39	.07	.00	3.39	.33	1.13	.18	--	--	260	8	1.0
					33	38	28	1		67	7	22	4					
06/29/73	5050	68.0F	7.5	228	--	--	--	--	--	--	--	--	--	--	--			
0745		20.0C												--				
06/29/73	5050	68.0F	7.5	260	--	--	--	--	--	--	--	--	--	--	--			
0705		20.0C												--				
06/25/73	5050	60.0F	7.1	482	--	--	--	--	--	--	--	--	--	--	--			
1045		15.5C												--				
06/25/73	5050	65.0F	7.0	587	--	--	--	--	--	--	--	--	--	--	--			
1350		18.3C												--				

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER				
				MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE						B	F	TDS	TH	SAR
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	SI02	SUM	NCH	SAR		
5 5-21																		
CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
5-21.01 27N/03W-25D01 M																		
TEHAMA COUNTY																		
06/25/73	5050	77.0F	6.9	387	--	--	--	--	--	--	12	31.0	--	--		179		
1410	5050	25.0C		414							.34	.50						
06/29/73	5050	68.0F	7.5	259	--	--	--	--	--	--	--	--	--	--				
0725		20.0C																
06/25/73	5050	71.0F	7.6	232	--	--	--	--	--	--	--	--	--	--				
0840		21.6C																
06/26/73	5050	72.0F	7.3	236	18	12	11	1.1	0	124	12	2.8	4.7	.00	--	182	94	
0630	5050	22.2C	7.8	224	.90	.99	.48	.03	.00	2.03	.25	.08	.08	--	123	0	0.5	
					38	41	20	1		83	10	3	3					
06/25/73	5050	76.0F	7.5	264	--	--	--	--	--	--	--	--	--	--				
0910		24.4C																
06/25/73	5050	72.0F	7.1	273	--	--	--	--	--	--	--	--	--	--				
0920		22.2C																
06/29/73	5050	68.0F	6.8	328	--	--	--	--	--	--	--	--	--	--				
0645		20.0C																
08/22/73	5050				26	24	23	2.6	3.0	192	8.4	20	15.0	.20	--	284	162	
1000	5050		8.4	416	1.30	1.97	1.00	.07	.10	3.15	.17	.56	.24	--	217	1	0.8	
					30	45	23	2	2	75	4	13	6					
08/22/73	5050				28	15	50	2.9	7.0	240	9.9	13	9.8	.00	--	304	133	
1030	5050		8.5	462	1.40	1.23	2.18	.07	.23	3.93	.21	.37	.16	--	254	0	1.9	
					29	25	45	1	5	80	4	8	3					
5-21.02 18N/01W-16H01 M																		
GLENN COUNTY																		
07/19/73	5050	70.0F	7.7	415	--	--	--	--	--	--	--	--	--	--				
1055		21.1C																
07/19/73	5050	66.0F	7.9	345	23	18	26	1.1	1.0	214	4.9	6.2	2.7	.10	--	198	131	
1030	5050	18.9C	8.4	351	1.15	1.48	1.13	.03	.03	3.51	.10	.17	.04	--	188	0	1.0	
					30	39	30	1	1	91	3	4	1					
07/19/73	5050	67.0F	7.6	580	--	--	--	--	--	--	--	--	--	--				
0930		19.4C																
07/19/73	5050	68.0F	7.6	700	41	32	63	1.0	1.0	322	70	28	5.4	.30	--	426	236	
1000	5050	20.0C	8.4	702	2.05	2.63	2.74	.03	.03	5.28	1.46	.79	.09	--	400	0	1.8	
					28	35	37			69	19	10	1					
07/19/73	5050	67.0F	7.7	375	--	--	--	--	--	--	--	--	--	--				
1135		19.4C																
07/19/73	5050	6.9	360	--	--	--	--	0	159	--	22	--	--	--		166		
0820	5050	7.9	378					.00	2.61		.62							
28/07/72	5050	69.0F	7.4	950	--	--	--	0	496	--	11	--	--	--		373		
1410	5050	20.5C	7.9	863				.00	8.13		.31							
07/19/73	5050	66.0F	7.3	695	--	--	--	--	--	--	--	--	--	--				
1120		18.9C																
07/19/73	5050	70.0F	7.5	625	--	--	--	--	--	--	--	--	--	--				
0835		21.1C																
07/25/73	5701	68.0F			31	21	46	.8	.9	252	28	12	11.0	--	.4	300	164	
5701	5701	20.0C	7.7	477	1.55	1.73	2.00	.02	.03	4.13	.58	.34	.18	--	26.0	301	0	1.6
					29	33	38		1	79	11	6	3					
02/20/73	5701	68.0F			20	17	42	.9	2.1	228	5.0	13	4.0	--	.3	242	120	
5701	5701	20.0C	8.1	386	1.00	1.40	1.83	.02	.07	3.74	.10	.37	.06	--	24.0	240	0	1.7
					24	33	43		2	86	2	9	1					

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	PERCENT REACTANCE VALUE			B	F	TDS SUM	TH NCH	SAR	
										HCO3	SO4	CL						NO3
5 5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																
5-21.02		GLENN COUNTY																
19N/03W-09A01		M																
06/20/73	5701	69.0F			22	17	35	.9	1.4	209	7.0	9.0	8.0	--	.3	227	124	
	5701	20.5C	8.0	384	1.10	1.40	1.52	.02	.05	3.43	.15	.25	.13	--	24.0	227	0	1.4
					27	35	38		1	86	4	6	3					
19N/03W-09F01		M																
05/25/73	5701	68.0F			31	25	50	1.0	2.4	281	39	10	6.0	.13	.4	331	182	
	5701	20.0C	8.1	551	1.55	2.06	2.18	.03	.08	4.61	.81	.28	.10	--	29.0	332	0	1.6
					27	35	37	1	1	78	14	5	2					
19N/03W-09J01		M																
07/19/73	5050	67.0F	7.6	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0845	19.4C																
19N/03W-09K01		M																
05/25/73	5701				31	26	50	.9	2.4	279	35	10	7.0	--	.4	327	180	
	5701		8.1	527	1.55	2.14	2.18	.02	.08	4.57	.73	.28	.11	--	30.0	329	0	1.6
					26	36	37		1	79	13	5	2					
19N/03W-09R01		M																
06/20/73	5701	70.0F			24	19	52	.9	1.4	256	18	12	8.0	--	.4	286	138	
	5701	21.1C	7.9	461	1.20	1.56	2.26	.02	.05	4.20	.37	.34	.13	--	25.0	286	0	1.9
					24	31	45		1	83	7	7	3					
19N/03W-10D01		M																
07/25/73	5701	68.0F			36	25	72	.6	1.0	337	43	12	9.0	--	.5	392	194	
	5701	20.0C	7.7	632	1.80	2.06	3.13	.02	.03	5.52	.90	.34	.15	--	27.0	391	0	2.3
					26	29	45			80	13	5	2					
19N/03W-18P01		M																
07/19/73	5050	67.0F	7.6	640	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0900	19.4C																
19N/03W-26P01		M																
07/19/73	5050	74.0F	7.8	575	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1015	23.3C																
20N/02W-11O01		M																
07/19/73	5050	66.0F	7.6	450	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1215	18.9C																
20N/02W-13O01		M																
07/19/73	5050	66.0F	7.9	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1150	18.9C																
20N/02W-22E01		M																
07/19/73	5050	74.0F	7.9	445	38	27	19	.6	4.0	260	.12	6.6	7.2	.10	--	267	208	
	5050	23.3C	8.5	444	1.90	2.22	.83	.02	.13	4.26	.25	.19	.12	--	--	242	0	0.6
					38	45	17		3	86	5	4	2					
20N/03W-02O01		M																
07/18/73	5050	68.0F	7.6	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1630	20.0C																
20N/03W-16E01		M																
07/18/73	5050	74.0F	7.7	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1610	23.3C																
20N/03W-16E02		M																
07/18/73	5050	72.0F	7.6	285	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1555	22.2C																
20N/03W-26R01		M																
07/19/73	5050	66.0F	7.2	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	0805	18.9C																
20N/04W-02O01		M																
05/10/73	5050	71.0F	7.4	368	--	--	20	--	0	211	--	7.2	--	.00	--	--	160	
	5050	21.6C	7.9	382			.87		.00	3.46		.20						0.7
							21											
21N/01W-29N01		M																
07/19/73	5050	68.0F	7.3	435	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1230	20.0C																
21N/02W-15O01		M																
07/23/73	5050	67.0F	7.4	825	64	35	22	1.2	0	264	28	51	34.0	.00	--	380	304	
	5050	19.4C	7.9	693	3.19	2.88	.96	.03	.00	4.33	.58	1.44	.55	--	--	365	87	0.5
					45	41	14			63	8	21	8					
21N/03W-02O01		M																
07/18/73	5050	68.0F	7.1	800	69	34	24	1.2	0	275	44	37	40.0	.10	--	410	311	
	5050	20.0C	8.1	699	3.44	2.80	1.04	.03	.00	4.51	.92	1.04	.65	--	--	385	87	0.6
					47	38	14			63	13	15	9					

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
5 5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																
5-21.02		GLENN COUNTY																
21N/03W-08A02		M																
05/11/73	5050	70.0F	7.6	285	20	15	20	.7	0	163	6.2	8.3	7.6	.00	--	161	113	
0800	5050	21.1C	8.0	293	1.00	1.23	.87	.02	.00	2.67	.13	.23	.12	--	--	158	0	0.8
					32	39	28	1		85	4	7	4					
07/18/73	5050	74.0F	7.9	305	--	--	--	--	0	159	--	8.6	--	--	--		112	
1500	5050	23.3C	8.1	291					.00	2.61		.24						
07/18/73	5050	73.0F	7.7	345	--	--	--	--	--	--	--	--	--	--	--			
1515	5050	22.8C																
07/18/73	5050	67.0F	7.6	540	--	--	--	--	--	--	--	--	--	--	--			
1100	5050	19.4C																
09/07/73	5701	63.0F	7.4	588	60	29	23	1.0	.5	280	34	30	12.0	.22	.1	351	268	
5701	5701	17.2C			2.99	2.38	1.00	.03	.02	4.59	.71	.85	.19	--	24.0	351	38	0.6
					47	37	16			72	11	13	3					
07/18/73	5050	68.0F	6.8	580	--	--	--	--	--	--	--	--	--	--	--			
1035	5050	20.0C																
07/18/73	5050	70.0F	7.2	475	--	--	--	--	0	184	--	36	24.0	--	--		201	
1025	5050	21.1C	7.8	495					.00	3.02		1.02	.39	--	--			
										68		23	9					
07/18/73	5050	69.0F	7.5	515	--	--	--	--	--	--	--	--	--	--	--			
1010	5050	20.5C																
07/18/73	5050	67.0F	7.3	455	--	--	--	--	0	224	--	18	--	--	--		194	
1130	5050	19.4C	8.0	459					.00	3.67		.51		--	--			
07/18/73	5050	65.0F	7.3	450	--	--	--	--	--	--	--	--	--	--	--			
1145	5050	18.3C																
05/11/73	5050	64.0F	7.0	993	--	--	45	--	0	325	--	128	--	.20	--		433	
0910	5050	17.8C	7.9	1000			1.96		.00	5.33		3.61		--	--			0.9
							18											
07/18/73	5050	68.0F	7.0	1090	95	56	44	.8	9.0	312	80	141	6.0	.20	--	732	468	
0950	5050	20.0C	8.4	1060	4.74	4.61	1.91	.02	.30	5.11	1.67	3.98	.10	--	585	197	0.9	
					42	41	17		3	46	15	36	1					
07/18/73	5050	70.0F	7.8	410	--	--	--	--	--	--	--	--	--	--	--			
0915	5050	21.1C																
05/11/73	5050	73.0F	7.2	504	--	--	20	--	0	276	--	22	--	.10	--		237	
0825	5050	22.8C	8.0	522			.87		.00	4.52		.62		--	--			0.6
							16											
07/18/73	5050	73.0F	7.5	450	51	15	17	.9	2.0	209	16	19	5.6	.10	--	220	190	
0905	5050	22.8C	8.3	432	2.54	1.23	.74	.02	.07	3.43	.33	.54	.09	--	229	14	0.5	
					56	27	16		2	77	7	12	2					
07/18/73	5050	67.0F	7.5	380	--	--	19	--	0	189	--	21	--	--	--		169	
0845	5050	19.4C	7.8	415			.83		.00	3.10		.59		--	--			0.6
							20											
07/18/73	5050	67.0F	7.5	480	--	--	--	--	--	--	--	--	--	--	--			
0825	5050	19.4C																
07/18/73	5050	66.0F	7.3	415	--	--	--	--	0	192	--	21	12.0	--	--		173	
1145	5050	18.9C	7.8	426					.00	3.15		.59	.19	--	--			
										80		15	5					
05/11/73	5050	63.0F	6.8	441	31	24	20	1.0	0	175	28	25	8.0	.20	--	243	176	
0810	5050	17.2C	7.7	443	1.55	1.97	.87	.03	.00	2.87	.58	.71	.13	--	223	33	0.7	
					35	45	20	1		67	14	17	3					
07/18/73	5050	74.0F	6.8	415	--	--	--	--	0	182	--	19	--	--	--		172	
1445	5050	23.3C	7.6	425					.00	2.98		.54		--	--			
07/18/73	5050	68.0F	7.5	480	--	--	--	--	--	--	--	--	--	--	--			
0930	5050	20.0C																

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER								MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR
5		CENTRAL VALLEY REGION																
5-21		SACRAMENTO VALLEY																
5-21.03		BUTTE COUNTY																
06/13/73	5050	64.4F	7.5	560	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1430		18.0C																
06/13/73	5050	64.0F	7.2	675	--	--	--	--	--	--	--	8.4	56.0	--	--			306
1510	5050	17.8C		658								.24	.90					
06/14/73	5050	62.6F	7.1	410	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0915		17.0C																
06/14/73	5050	64.4F	6.8	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945		18.0C																
06/14/73	5050	64.4F	7.3	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1100		18.0C																
06/14/73	5050	64.4F	7.1	235	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1125		18.0C																
06/14/73	5050	64.4F	7.3	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1140		18.0C																
06/14/73	5050	68.0F	7.3	295	20	18	14	1.9	0	165	12	7.0	4.7	.00	--	226	125	
1155	5050	20.0C	8.2	293	1.00	1.48	.61	.05	.00	2.70	.25	.20	.08	--	159	0	0.5	
					32	47	19	2		84	.8	.6	.2					
06/14/73	5050	66.2F	7.1	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1315		19.0C																
06/14/73	5050	66.2F	7.3	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1335		19.0C																
06/14/73	5050	66.2F	7.3	262	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1350		19.0C																
06/22/73	5050	65.0F	7.1	155	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1015		18.3C																
06/14/73	5050	64.4F	7.3	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1430		18.0C																
06/14/73	5050	69.8F	7.6	2600	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1450		21.0C																
06/15/73	5050	66.2F	7.3	242	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010		19.0C																
06/15/73	5050	70.0F	7.3	160	8.9	9.5	11	.7	0	92	8.1	2.8	1.6	.00	--	166	61	
0840	5050	21.1C	7.9	165	.44	.78	.48	.02	.00	1.51	.17	.08	.03	--	88	0	0.6	
					26	45	28	1		84	.9	.4	.2					
08/22/73	5701	65.0F	7.2	364	30	18	18	1.8	.2	161	22	20	8.0	--	.1	244	150	
5701		18.3C			1.50	1.48	.78	.05	.01	2.64	.46	.56	.13	46.0		243	17	0.6
					39	39	20	1		69	12	15	3					
08/21/73	5701	65.0F	7.2	404	30	21	19	1.6	.1	153	30	34	5.0	--	.0	263	164	
5701		18.3C			1.50	1.73	.83	.04	.00	2.51	.62	.96	.08	46.0		262	36	0.7
					37	42	20	1		60	15	23	2					
05/21/73	5701	68.0F	7.3	352	27	17	24	.9	.3	190	12	13	9.0	.24	.3	255	138	
5701		20.0C			1.35	1.40	1.04	.02	.01	3.11	.25	.37	.15	58.0		255	0	0.9
					35	37	27	1		80	.6	10	4					
04/23/73	5701	74.0F	7.2	395	34	17	25	1.0	.3	199	15	16	12.0	--	.2	276	154	
5701		23.3C			1.70	1.40	1.09	.03	.01	3.26	.31	.45	.19	56.0		274	0	0.9
					40	33	26	1		77	.7	11	5					
05/23/73	5701	74.0F	7.2	390	30	20	26	1.2	.2	200	15	14	13.0	--	.7	274	156	
5701		23.3C			1.50	1.64	1.13	.03	.01	3.28	.31	.39	.21	58.0		276	0	0.9
					35	38	26	1		78	.7	.9	5					

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR						
																			PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE	
5 5-21 CENTRAL VALLEY REGION SACRAMENTO VALLEY																								
5-21.03 20N/01E-01C01 M BUTTE COUNTY																								
06/15/73	5050	70.0F	7.1	725	55	56	12	.9	0	349	31	33	28.0	.00	--	492	370							
1355	5050	21.1C	8.2	735	2.74	4.61	.52	.02	.00	5.72	.65	.93	.45	--	--	388	82	0.3						
					35	58	7			74	8	12	6											
06/15/73	5050	66.0F	7.1	690	56	52	15	1.1	0	318	48	20	51.0	.00	--	458	352							
1115	5050	18.9C	8.3	718	2.79	4.28	.65	.03	.00	5.21	1.00	.56	.82	--	--	399	93	0.3						
					36	55	8			69	13	7	11											
06/22/73	5050	69.0F	7.3	600	--	--	--	--	--	--	--	--	--	--	--	--	--							
0900		20.5C																						
06/15/73	5050	62.6F	7.1	150	--	--	--	--	--	--	--	--	--	--	--	--	--							
0915		17.0C																						
06/15/73	5050	64.4F	7.1	650	--	--	--	--	--	--	--	--	--	--	--	--	--							
1450		18.0C																						
06/15/73	5050	68.0F	7.3	305	--	--	--	--	--	--	--	--	--	--	--	--	--							
1435		20.0C																						
06/15/73	5050	64.4F	7.1	395	--	--	--	--	--	--	--	--	--	--	--	--	--							
1030		18.0C																						
06/15/73	5050	68.0F	7.1	990	71	82	18	.6	0	325	133	24	134	.00	--	750	516							
1330	5050	20.0C	8.3	1019	3.54	6.74	.78	.02	.00	5.33	2.77	.68	2.16	--	--	622	248	0.3						
					32	61	7			49	25	6	20											
06/15/73	5050	68.0F	7.1	218	--	--	--	--	--	--	--	--	--	--	--	--	--							
0935		20.0C																						
06/15/73	5050	66.2F	7.1	260	--	--	--	--	--	--	--	--	--	--	--	--	--							
1000		19.0C																						
07/12/73	5701	68.0F	7.6	278	21	11	17	2.3	.3	116	5.0	25	4.0	--	.2	212	98							
	5701	20.0C			1.05	.90	.74	.06	.01	1.90	.10	.71	.06	69.0		212	2	0.7						
					38	33	27	2		68	4	26	2											
04/05/73	5701	70.0F	7.9	244	21	11	13	2.8	.6	131	2.0	11	4.0	--	.1	201	96							
	5701	21.1C			1.05	.90	.57	.07	.02	2.15	.04	.31	.06	70.0		200	0	0.6						
					41	35	22	3	1	83	2	12	2											
06/18/73	5050	66.0F	7.0	350	--	--	--	--	--	--	--	--	--	--	--	--	--							
0935		18.9C																						
06/18/73	5050	66.0F	7.3	185	--	--	--	--	--	--	--	--	--	--	--	--	--							
0945		18.9C																						
06/07/73	5701	68.0F	7.7	207	22	10	10	1.4	.5	133	6.0	6.0	.0	--	.1	197	96							
	5701	20.0C			1.10	.82	.44	.04	.02	2.18	.12	.17	.00	75.0		196	0	0.4						
					46	34	18	2	1	88	5	7												
02/07/73	5701	69.0F	7.8	222	20	12	10	2.5	.6	138	2.0	4.0	5.0	--	.1	194	100							
	5701	20.5C			1.00	.99	.44	.06	.02	2.26	.04	.11	.08	69.0		193	0	0.4						
					40	40	18	2	1	90	2	4	3											
09/06/73	5701	68.0F	7.6	215	18	11	10	1.6	.3	126	2.0	5.0	4.0	--	.1	181	92							
	5701	20.0C			.90	.90	.44	.04	.01	2.07	.04	.14	.06	67.0		181	0	0.5						
					39	39	19	2		89	2	6	3											
06/22/73	5701	68.0F	7.7	194	20	11	10	1.7	.4	128	1.0	5.0	6.0	--	.1	187	94							
	5701	20.0C			1.00	.90	.44	.04	.01	2.10	.02	.14	.10	69.0		187	0	0.4						
					42	38	18	2		89	1	6	4											
09/06/73	5701	68.0F	7.5	215	18	13	10	1.7	.3	136	2.0	4.0	4.0	.01	.1	189	100							
	5701	20.0C			.90	1.07	.44	.04	.01	2.23	.06	.11	.06	68.0		189	0	0.4						
					37	44	18	2		90	2	4	2											
07/12/73	5701	66.0F	7.7	241	22	13	11	1.5	.5	141	2.0	6.0	7.0	--	.1	193	106							
	5701	18.9C			1.10	1.07	.48	.04	.02	2.31	.04	.17	.11	62.0		194	0	0.5						
					41	40	18	1	1	87	2	6	4											

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
					PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE					PERCENT REACTANCE VALUE				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TO5	TH	SAR						
				CENTRAL VALLEY REGION SACRAMENTO VALLEY																				
				5 5-21																				
				5-21.03 22N/01E-16M01																				
				BUTTE COUNTY																				
09/07/73	5701	65.0F			18	12	10	1.7	.3	124	1.0	7.0	4.0	--	.1	179	94							
	5701	18.3C	7.6	215	.90	.99	.44	.04	.01	2.03	.02	.20	.06		65.0	180	0	0.4						
					38	42	19	2		88	1	9	3											
				22N/01E-21M01																				
08/30/73	5701	58.0F			17	10	11	.9	.2	109	5.0	8.0	.0	--	.2	161	84							
	5701	14.4C	7.5	201	.85	.82	.48	.02	.01	1.79	.10	.23	.00		55.0	161	0	0.5						
					39	38	22	1		84	5	11												
				22N/01E-22D01																				
07/12/73	5701	59.0F			24	7.0	11	1.0	.3	112	4.0	10	6.0	--	.1	173	90							
	5701	15.0C	7.6	223	1.20	.58	.48	.03	.01	1.84	.08	.28	.10		55.0	173	0	0.5						
					52	25	21	1		80	3	12	4											
				22N/01E-22F01																				
05/09/73	5701	60.0F			29	13	14	1.2	.3	144	6.0	11	15.0	--	.1	209	120							
	5701	15.5C	7.5	286	1.45	1.07	.61	.03	.01	2.36	.12	.31	.24		52.0	212	8	0.5						
					46	34	19	1		78	4	10	8											
				22N/01E-22H01																				
06/22/73	5701	62.0F			20	9.0	12	1.1	.3	116	4.0	10	5.0	--	.1	175	88							
	5701	16.7C	7.6	197	1.00	.74	.52	.03	.01	1.90	.08	.28	.08		57.0	175	0	0.6						
					44	32	23	1		81	3	12	3											
				22N/01E-22P01																				
05/09/73	5701	60.0F			37	18	17	1.5	.4	190	11	15	21.0	--	.1	264	165							
	5701	15.5C	7.5	385	1.85	1.48	.74	.04	.01	3.11	.23	.42	.34		51.0	265	11	0.6						
					45	36	18	1		76	6	10	8											
				22N/01E-22Q01																				
04/05/73	5701	64.0F			20	10	13	1.6	.6	120	4.0	10	6.0	--	.1	183	90							
	5701	17.8C	7.9	224	1.00	.82	.57	.04	.02	1.97	.08	.28	.10		58.0	182	0	0.6						
					41	34	23	2	1	80	3	11	4											
				22N/01E-23A01																				
05/09/73	5701	62.0F			20	8.0	13	1.2	.3	105	4.0	8.0	7.0	--	.1	154	78							
	5701	16.7C	7.6	205	1.00	.66	.57	.03	.01	1.72	.08	.23	.11		44.0	157	0	0.6						
					44	29	25	1		80	4	11	5											
				22N/01E-23C01																				
06/22/73	5701	62.0F			20	9.0	11	1.2	0	119	4.0	8.0	6.0	--	.1	175	88							
0001	5701		7.6	192	1.00	.74	.48	.03	.00	1.95	.08	.23	.10		57.0	175	0	0.5						
					44	33	21	1		83	3	10	4											
				22N/01E-23C02																				
09/07/73	5701	59.0F			20	12	12	1.2	.2	122	5.0	10	11.0	--	.1	182	100							
	5701	15.0C	7.4	245	1.00	.99	.52	.03	.01	2.00	.10	.28	.18		50.0	181	0	0.5						
					39	39	20	1		78	4	11	7											
				22N/01E-23K03																				
02/08/73	5701	67.0F			19	10	12	2.1	.6	128	2.0	7.0	3.0	--	.1	184	90							
	5701	19.4C	7.8	217	.95	.82	.52	.05	.02	2.10	.04	.20	.05		64.0	183	0	0.6						
					41	35	22	2	1	87	2	8	2											
				22N/01E-23P01																				
06/22/73	5701	64.0F			34	14	14	1.4	0	165	7.0	15	16.0	--	.1	231	142							
0001	5701		7.3	326	1.70	1.15	.61	.04	.00	2.70	.15	.42	.26		48.0	231	8	0.5						
					49	33	17	1		76	4	12	7											
				22N/01E-23R01																				
09/07/73	5701	68.0F			18	12	11	1.5	.3	124	4.0	9.0	4.0	--	.1	177	94							
	5701	20.0C	7.6	224	.90	.99	.48	.04	.01	2.03	.08	.25	.06		56.0	177	0	0.5						
					37	41	20	2		84	3	10	2											
				22N/01E-24801																				
04/05/73	5701	77.0F			21	10	10	1.7	.6	123	3.0	7.0	4.0	--	.1	179	92							
	5701	25.0C	7.9	216	1.05	.82	.44	.04	.02	2.02	.06	.20	.06		60.0	178	0	0.5						
					45	35	19	2	1	86	3	8	3											
				22N/01E-25C01																				
07/12/73	5701	59.0F			19	9.0	12	1.7	.5	118	3.0	10	1.0	.06	.1	167	86							
	5701	15.0C	7.8	216	.95	.74	.52	.04	.02	1.93	.06	.28	.02		51.0	165	0	0.6						
					42	33	23	2	1	84	3	12	1											
				22N/01E-25M01																				
04/05/73	5701	63.0F			19	9.0	11	2.1	.6	118	3.0	9.0	2.0	--	.1	167	86							
	5701	17.2C	7.8	217	.95	.74	.48	.05	.02	1.93	.06	.25	.03		52.0	166	0	0.5						
					43	33	22	2	1	84	3	11	1											
				22N/01E-26J01																				
05/09/73	5701	64.0F			29	7.0	12	1.3	.2	127	4.0	10	2.0	--	.1	176	100							
	5701	17.8C	7.4	232	1.45	.58	.52	.03	.01	2.08	.08	.28	.03		49.0	177	0	0.5						
					56	22	20	1		84	3	11	1											
				22N/01E-26J02																				
06/22/73	5701	64.0F			18	11	11	1.6	.4	124	3.0	9.0	2.0	--	.1	175	90							
	5701	17.8C	7.7	190	.90	.90	.48	.04	.01	2.03	.06	.25	.03		58.0	175	0	0.5						
					39	39	21	2		85	3	11	1											
				22N/01E-26K01																				
04/05/73	5701	62.0F			24	10	13	1.5	.3	136	5.0	11	2.0	.13	.1	183	102							
	5701	16.7C	7.6	255	1.20	.82	.57	.04	.01	2.23	.10	.31	.03		48.0	182	0	0.6						
					46	31	22	2		83	4	12	1											
				22N/01E-26L01																				
02/07/73	5701	62.0F			39	19	19	1.1	.6	196	22	22	6.0	--	.1	250	176							
	5701	16.7C	7.6	410	1.95	1.56	.83	.03	.02	3.21	.46	.62	.10		23.0	248	14	0.6						
					45	36	19	1		73	10	14	2											

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
				PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE				B	F	TDS SUM	TH NCH	SAR
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	NO3	NO3	NO3	NO3	NO3					
				CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
				BUTTE COUNTY																		
				5-21.03																		
				22N/01E-26L02																		
05/09/73	5701	64.0F			26	6.0	13	1.2	.4	110	4.0	11	2.0	--	.1	164	86					
	5701	17.8C	7.7	214	1.30	.49	.57	.03	.01	1.80	.08	.31	.03	--	50.0	168	0	0.6				
					54	21	24	1		81	4	14	1									
				22N/01E-26Q01																		
09/07/73	5701	59.0F			24	16	10	1.2	.2	146	4.0	11	7.0	--	.1	198	124					
	5701	15.0C	7.2	282	1.20	1.32	.44	.03	.01	2.39	.08	.31	.11	--	52.0	197	6	0.4				
					40	44	15	1		82	3	11	4									
				22N/01E-27G02																		
06/22/73	5701	62.0F			49	19	18	1.5	.3	253	12	14	8.0	--	.1	301	202					
	5701	16.7C	7.3	432	2.45	1.56	.78	.04	.01	4.15	.25	.39	.13	--	55.0	301	0	0.6				
					51	32	16	1		84	5	8	3									
				22N/01E-27R01																		
07/12/73	5701	60.0F			31	16	14	1.2	.5	177	6.0	14	3.0	--	.1	223	142					
	5701	15.5C	7.6	322	1.55	1.32	.61	.03	.02	2.90	.12	.39	.05	--	50.0	223	0	0.5				
					44	38	17	1	1	83	3	11	1									
				22N/01E-31Q01																		
09/07/73	5701	68.0F			17	14	9.0	1.6	.5	133	7.0	4.0	4.0	--	.1	183	98					
	5701	20.0C	7.7	220	.85	1.15	.39	.04	.02	2.18	.04	.11	.06	--	66.0	183	0	0.4				
					35	47	16	2	1	90	2	5	2									
				22N/01E-33A01																		
09/07/73	5701	58.0F			18	12	12	1.1	.3	121	6.0	11	3.0	--	.1	179	96					
	5701	14.4C	7.5	236	.90	.99	.52	.03	.01	1.98	.12	.31	.05	--	55.0	178	0	0.5				
					37	41	21	1		80	5	13	2									
				22N/01E-34G01																		
07/12/73	5701	60.0F			28	15	13	1.2	.3	163	6.0	15	5.0	--	.2	218	132					
	5701	15.5C	7.5	304	1.40	1.23	.57	.03	.01	2.67	.12	.42	.08	--	55.0	219	0	0.5				
					43	38	18	1		81	4	13	2									
				22N/01E-35A02																		
02/08/73	5701	62.0F			22	13	10	2.2	.3	141	3.0	9.0	6.0	--	.1	190	108					
	5701	16.7C	7.5	246	1.10	1.07	.44	.06	.01	2.31	.06	.25	.10	--	54.0	189	0	0.4				
					41	40	16	2		85	2	9	4									
				22N/01E-35F01																		
07/12/73	5701	59.0F			26	15	11	1.1	.3	146	4.0	12	9.0	--	.1	201	124					
	5701	15.0C	7.5	283	1.30	1.23	.48	.03	.01	2.39	.08	.34	.15	--	52.0	202	7	0.4				
					43	40	16	1		80	3	11	5									
				22N/01E-35H02																		
04/05/73	5701	64.0F			36	18	9.0	1.9	.3	185	7.0	11	17.0	--	.1	247	162					
	5701	17.8C	7.5	355	1.80	1.48	.39	.05	.01	3.03	.15	.31	.27	--	54.0	245	12	0.3				
					48	40	10	1		80	4	8	7									
				22N/01E-36C01																		
07/12/73	5701	64.0F			21	7.0	16	2.0	.7	125	3.0	9.0	2.0	--	.1	181	82					
	5701	17.8C	7.9	232	1.05	.58	.70	.05	.02	2.05	.06	.25	.03	--	58.0	180	0	0.8				
					44	24	29	2	1	85	2	10	1									
				22N/02E-17E01																		
06/15/73	5050	64.0F	7.3	212	--	--	--	--	0	114	--	9.3	--	--	--	--	87					
	1300	17.8C	7.6	217	--	--	--	--	.00	1.87	--	.26	--	--	--	--						
				22N/02E-18N01																		
02/08/73	5701	68.0F			18	10	13	1.3	.3	129	3.0	5.0	1.0	--	.1	187	88					
	5701	20.0C	7.7	213	.90	.82	.57	.03	.01	2.11	.06	.14	.02	--	71.0	186	0	0.6				
					39	35	25	1		90	3	6	1									
				22N/02E-19E01																		
02/08/73	5701	64.0F			19	10	13	2.5	.6	128	3.0	10	1.0	--	.1	178	90					
	5701	17.8C	7.9	219	.95	.82	.57	.06	.02	2.10	.06	.28	.02	--	55.0	177	0	0.6				
					40	34	24	3	1	85	2	11	1									
				21N/01W-35C01																		
06/15/73	5050	66.0F	7.1	475	--	--	18	--	0	290	--	6.3	--	--	--	--	228					
	1520	18.9C	7.8	480	--	--	.78	--	.00	4.75	--	.18	--	--	--	--		0.5				
							15															
				23N/01W-09L01																		
06/18/73	5050	64.0F	6.9	525	--	--	--	--	--	--	--	--	--	--	--	--	--					
	1000	17.8C																				
				5-21.04																		
				COLUSA COUNTY																		
				13N/01E-22J01																		
07/12/73	5050	70.0F	7.1	580	47	34	20	4.2	1.0	348	6.9	4.3	1.2	.10	--	276	257					
	1320	21.1C	8.4	551	2.35	2.80	.87	.11	.03	5.70	.14	.12	.02	--	290	0	0.5					
					38	46	14	2		95	2	2										
				14N/01E-16K01																		
07/12/73	5050	72.0F	7.8	560	--	--	--	--	--	--	--	--	--	--	--	--	--					
	1345	22.2C																				
				13N/01W-06Q01																		
07/12/73	5050	77.0F	7.1	1420	--	--	--	--	--	--	--	--	--	--	--	--	--					
	0940	25.0C																				
				13N/01W-07A01																		
07/12/73	5050	76.0F	7.6	1400	--	--	--	--	--	--	--	--	--	--	--	--	--					
	1005	24.4C																				

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER					MILLIGRAMS PER LITER						
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR		
5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
5-21.04		COLUSA COUNTY																		
07/12/73	5050	13N/01W-08B01	M	67.0F	7.4	1900	132	83	77	1.5	0	186	12	457	20.0	.40	--	1120	670	
1015	5050			19.4C	8.1	1852	6.59	6.83	3.35	.04	.00	3.05	.25	12.89	.32	--	--	874	519	1.3
							39	41	20			18	2	78	2					
07/12/73	5050	13N/01W-30F01	M	72.0F	7.7	440	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1220				22.2C																
07/12/73	5050	13N/01W-36002	M	71.0F	7.6	510	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1245				21.6C																
07/12/73	5050	13N/02W-26A01	M	72.0F	7.4	745	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1140				22.2C																
07/12/73	5050	13N/02W-26G01	M	72.0F	7.7	575	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200				22.2C																
07/12/73	5050	14N/01W-02D01	M	67.0F	7.6	1090	58	46	85	2.1	5.0	218	93	166	.9	.20	--	642	336	
1420	5050			19.4C	8.5	1072	2.89	3.78	3.70	.05	.17	3.57	1.94	4.68	.01	--	--	563	147	2.0
							28	36	36		2	34	19	45						
07/12/73	5050	14N/01W-12A01	M	67.0F	8.0	695	11	12	128	.8	13	291	7.2	61	.8	.50	--	426	78	
1405	5050			19.4C	8.7	704	.55	.99	5.57	.02	.43	4.77	.15	1.72	.01	--	--	377	0	6.4
							8	14	78		6	67	2	24						
07/11/73	5050	14N/02W-12H02	M	68.0F	7.7	650	36	36	48	2.6	16	276	26	40	1.7	.10	--	328	236	
1350	5050			20.0C	8.7	641	1.80	2.96	2.09	.07	.53	4.52	.54	1.13	.03	--	--	342	0	1.4
							26	43	30	1	8	67	8	17						
05/10/73	5050	14N/02W-29J01	M	73.0F	7.2	273	14	14	23	1.0	0	142	7.8	11	11.0	.00	--	158	92	
1100	5050			22.8C	7.9	276	.70	1.15	1.00	.03	.00	2.33	.08	.31	.18	--	--	148	0	1.0
							24	40	35	1		80	3	11	6					
05/10/73	5050	14N/03W-14002	M	70.0F	7.2	609	38	33	41	.9	0	216	55	52	24.0	.10	--	352	230	
1130	5050			21.1C	7.9	635	1.90	2.71	1.78	.02	.00	3.54	1.15	1.47	.39	--	--	350	54	1.2
							30	42	28			54	18	22	6					
07/11/73	5050	15N/02W-32R01	M	69.0F	7.4	700	34	25	63	.3	9.0	266	40	30	13.0	.20	--	349	187	
1415	5050			20.5C	8.6	639	1.70	2.06	2.74	.01	.30	4.36	.83	.85	.21	--	--	345	0	2.0
							26	32	42		5	67	13	13	3					
07/11/73	5050	15N/03W-01R01	M	69.0F	7.7	1050	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1050				20.5C																
07/11/73	5050	15N/03W-26L01	M	76.0F	7.4	665	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1205				24.4C																
07/13/73	5050	16N/01W-19F03	M	64.0F	8.1	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010				17.8C																
07/13/73	5050	16N/01W-29J01	M	70.0F	7.9	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1040				21.1C																
07/10/73	5050	16N/02W-04H01	M	73.0F	7.8	655	--	--	50	--	0	228	--	45	--	--	--	--	228	
1330	5050			22.8C	8.2	667			2.18		.00	3.74		1.27						1.4
								32												
07/13/73	5050	16N/02W-25802	M	68.0F	7.6	800	23	26	134	1.5	21	368	84	22	.0	.20	--	517	163	
0935	5050			20.0C	8.7	841	1.15	2.14	5.83	.04	.70	6.03	1.75	.62	.00	--	--	493	0	4.5
							13	23	64		8	66	19	7						
07/13/73	5050	16N/02W-25803	M	69.0F	7.7	1075	30	36	164	2.1	0	584	60	23	10.0	.30	--	665	223	
0945	5050			20.5C	8.6	1072	1.50	2.96	7.13	.05	.00	9.57	1.25	.65	.16	--	--	613	0	4.8
							13	25	61			82	11	6	1					
07/13/73	5050	16N/02W-35801	M	70.0F	7.8	680	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0835				21.1C																
07/10/73	5050	16N/03W-09N01	M	85.0F	7.9	580	39	20	59	.5	0	238	23	57	.9	.20	--	329	181	
1410	5050			29.4C	8.2	602	1.95	1.64	2.57	.01	.00	3.90	.48	1.61	.01	--	--	317	0	1.9
							32	27	42			65	8	27						

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER																			
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR																
5 5-21																				CENTRAL VALLEY REGION SACRAMENTO VALLEY														
5-21.04																				COLUSA COUNTY														
17N/01W-06R01																				M														
07/10/73	5050	62.0F	7.9	345	25	14	30	1.5	0	201	5.8	8.5	.1	.10	--	204	121																	
1020	5050	16.7C	8.3	347	1.25	1.15	1.31	.04	.00	3.29	.12	.24	.00	--	184	0	1.2																	
					33	31	35	1		90	3	7																						
17N/01W-30K03																				M														
07/10/73	5050	72.0F	8.1	460	42	26	25	2.0	6.0	296	2.0	8.1	.2	.10	--	298	211																	
1015	5050	22.2C	8.4	476	2.10	2.14	1.09	.05	.20	4.85	.04	.23	.00	--	257	0	0.7																	
					39	40	20	1	4	91	1	4																						
17N/02W-12C01																				M														
07/10/73	5050	67.0F	7.9	490	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
1105		19.4C																																
17N/02W-30J02																				M														
07/10/73	5050	71.0F	7.7	1800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
1345		21.6C																																
17N/03W-32M01																				M														
07/11/73	5050	67.0F	7.6	600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
0915		19.4C																																
17N/03W-33R01																				M														
03/28/73	5050	68.0F	7.4	959	42	29	132	2.0	0	330	104	100	2.6	.20	--	578	226																	
1310	5050	20.0C	8.3	1010	2.10	2.38	5.74	.05	.00	5.41	2.17	2.82	.04	--	574	0	3.8																	
					70	23	56			52	21	27																						
07/11/73	5050	72.0F	7.9	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--															
0945		22.2C																																
5-21.05																				SUTTER COUNTY														
11N/03E-24D01																				M														
07/12/73	5050	64 F	7.7	590	--	--	45	--	0	402	--	11	--	--	--	234																		
1550	5050	18 C	8.2	611			1.96		.00	6.59		.31		--					1.3															
							30																											
11N/04E-04R02																				M														
07/12/73	5050	67 F	7.5	550	--	--	31	--	0	313	--	29	--	--	--	250																		
0930	5050	19 C	8.2	570			1.35		.00	5.13		.82		--					0.9															
							21																											
11N/04E-35J01																				M														
07/12/73	5050	68 F	7.9	300	--	--	25	--	0	151	--	20	--	--	--	84																		
0800	5050	20 C	7.9	301			1.09		.00	2.47		.56		--					1.2															
							39																											
12N/04E-24M02																				M														
06/28/73	5050	67 F	7.3	310	--	--	26	--	0	153	--	21	--	--	--	106																		
1215	5050	19 C	7.8	319			1.13		.00	2.51		.59		--					1.1															
							35																											
12N/04E-25N01																				M														
07/12/73	5050	66 F	7.5	375	--	--	19	--	0	215	--	12	--	--	--	168																		
1000	5050	19 C	8.1	386			.83		.00	3.52		.34		--					0.6															
							20																											
13N/04E-33J01																				M														
07/12/73	5050	70 F	7.5	550	--	--	24	--	0	317	--	30	--	--	--	260																		
1045	5050	21 C	8.3	548			1.04		.00	5.20		.85		--					0.6															
							17																											
14N/01E-24N01																				M														
07/13/73	5050	67 F	7.5	455	--	--	36	--	0	276	--	6.6	--	--	--	180																		
0845	5050	19 C	8.2	453			1.57		.00	4.52		.19		--					1.2															
							30																											
14N/02E-13L01																				M														
07/12/73	5050	65 F	7.9	360	--	--	26	--	0	230	--	3.0	--	--	--	159																		
1400	5050	18 C	8.1	378			1.13		.00	3.77		.08		--					0.9															
							26																											
14N/03E-06A02																				M														
07/12/73	5050	70 F	7.8	625	--	--	41	--	0	415	--	8.2	--	--	--	297																		
1330	5050	21 C	8.3	655			1.78		.00	6.80		.23		--					1.0															
							23																											
15N/01E-15G01																				M														
07/13/73	5050	66 F	7.5	520	--	--	23	--	0	344	--	11	--	--	--	265																		
0900	5050	19 C	7.9	547			1.00		.00	5.64		.31		--					0.6															
							16																											
15N/02E-01R01																				M														
07/16/73	5050	69 F	7.5	275	--	--	8.9	--	0	167	--	3.5	--	--	--	128																		
1400	5050	21 C	7.9	280			.39		.00	2.74		.10		--					0.3															
							13																											
15N/02E-22D01																				M														
07/13/73	5050	68 F	7.5	270	--	--	19	--	0	150	--	9.3	--	--	--	103																		
1040	5050	20 C	7.8	277			.83		.00	2.46		.26		--					0.8															
							29																											
15N/03E-15H04																				M														
07/12/73	5050	69 F	7.3	850	--	--	21	--	0	501	--	59	--	--	--	459																		
1300	5050	21 C	8.2	852			.91		.00	8.21		1.66		--					0.4															
							9																											

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
		CENTRAL VALLEY REGION																	
		SACRAMENTO VALLEY																	
		SUTTER COUNTY																	
07/17/73	5050	65	F	7.3	405	--	--	21	--	0	199	--	23	--	--	--	169		
0930	5050	18	C	7.7	423			.91		.00	3.26		.65		--	--		0.7	
		16N/01E-05C01																	
07/16/73	5050	67	F	7.5	440	--	--	15	--	0	258	--	9.9	--	--	--	218		
1430	5050	19	C	8.3	448			.65		.00	4.23		.28		--	--		0.4	
		16N/02E-02R01																	
07/16/73	5050	67	F	7.3	240	--	--	11	--	0	139	--	2.8	--	--	--	108		
1500	5050	19	C	8.0	248			.48		.00	2.28		.08		--	--		0.5	
		16N/03E-04E01																	
07/13/73	5050	69	F	7.2	490	--	--	19	--	0	284	--	16	--	--	--	236		
1215	5050	21	C	7.7	515			.83		.00	4.65		.45		--	--		0.5	
		15N/01W-13R01																	
		YUBA COUNTY																	
07/11/73	5050	67	F	7.3	285	--	--	19	--	0	127	--	19	--	--	--	109		
0930	5050	19	C	7.7	291			.83		.00	2.08		.54		--	--		0.8	
		13N/04E-02A02																	
07/11/73	5050	69	F	7.3	195	--	--	14	--	0	96	--	9.1	--	--	--	70		
1030	5050	21	C	7.5	194			.61		.00	1.57		.26		--	--		0.7	
		14N/04E-14J02																	
07/11/73	5050	66	F	7.1	275	--	--	16	--	0	127	--	18	--	--	--	114		
1530	5050	19	C	7.7	281			.70		.00	2.08		.51		--	--		0.7	
		14N/05E-32R03																	
07/11/73	5050	68	F	7.9	340	--	--	19	--	0	175	--	16	--	--	--	140		
1550	5050	20	C	8.1	342			.83		.00	2.87		.45		--	--		0.7	
		15N/03E-13F01																	
07/11/73	5050	68	F	7.7	250	--	--	12	--	0	152	--	8.4	--	--	--	111		
1115	5050	20	C	7.6	256			.52		.00	2.49		.24		--	--		0.5	
		15N/04E-31A01																	
07/11/73	5050	64	F	7.3	570	--	--	19	--	0	353	--	11	--	--	--	310		
1445	5050	18	C	8.1	598			.83		.00	5.79		.31		--	--		0.5	
		16N/03E-36E02																	
07/11/73	5050	67	F	7.3	225	--	--	8.2	--	0	104	--	2.1	--	--	--	99		
1245	5050	19	C	7.6	230			.36		.00	1.70		.06		--	--		0.4	
		16N/04E-34E01																	
07/11/73	5050	67	F	7.7	430	--	--	17	--	0	219	--	11	--	--	--	175		
1330	5050	19	C	8.0	401			.74		.00	3.59		.31		--	--		0.6	
		17N/03E-35R01																	
		PLACER COUNTY																	
07/10/73	5050	69	F	7.5		--	--	29	--	0	116	--	24	--	--	--	68		
1040	5050	21	C	7.9	267			1.26		.00	1.90		.68		--	--		1.5	
		10N/05E-04Q01																	
07/10/73	5050	70	F	7.7		--	--	22	--	0	112	--	15	--	--	--	70		
1115	5050	21	C	7.7	238			.96		.00	1.84		.42		--	--		1.1	
		11N/05E-17E01																	
		SACRAMENTO COUNTY																	
07/03/73	5050	69	F	7.3	150	--	--	22	--	0	66	--	6.2	--	--	--	24		
1200	5050	21	C	8.1	151			.96		.00	1.08		.17		--	--		2.0	
		05N/07E-11R02																	
07/05/73	5050	65	F	7.3	470	--	--	22	--	0	237	--	14	--	--	--	181		
0830	5050	18	C	8.0	428			.96		.00	3.88		.39		--	--		0.7	
		06N/05E-03F01																	
07/05/73	5050	66	F	7.9	265	--	--	21	--	2.0	146	--	12	--	--	--	96		
0730	5050	19	C	8.4	268			.91		.07	2.39		.34		--	--		0.9	
		06N/05E-31L03																	
07/03/73	5050	65	F	7.3	245	--	--	18	--	0	128	--	14	--	--	--	96		
1400	5050	18	C	8.3	258			.78		.00	2.10		.39		--	--		0.8	
		06N/06E-23C02																	
07/03/73	5050	67	F	7.3	190	--	--	15	--	0	85	--	9.0	--	--	--	62		
1340	5050	19	C	8.1	190			.65		.00	1.39		.25		--	--		0.8	
		06N/06E-33J02																	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER								MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR
5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																
5-21.08		SACRAMENTO COUNTY																
06N/08E-21P03		M																
07/03/73	5050	73	F	7.3	185	--	--	33	--	0	78	--	5.2	--	--	--	13	
1250	5050	23	C	8.1	186			1.44		.00	1.28		.15		--	--		4.0
07N/04E-11G02		M																
07/10/73	5050	67	F	7.5	1900	91	38	264	11	0	200	16	550	.0	1.20	--	1440	386
1615	5050	19	C	8.2	2140	4.54	3.13	11.48	.28	.00	3.28	.33	15.51	.00	--	--	1070	220
07N/05E-03N01		M																
07/05/73	5050	70	F	7.5	185	--	--	14	--	0	94	--	8.5	--	--	--	66	
0945	5050	21	C	7.6	187			.61		.00	1.54		.24		--	--		0.8
07N/06E-10001		M																
07/05/73	5050	69	F	7.3	200	--	--	19	--	0	111	--	7.4	--	--	--	64	
1040	5050	21	C	8.2	204			.83		.00	1.82		.21		--	--		1.0
07N/07E-08B01		M																
07/05/73	5050	71	F	7.1	220	--	--	27	--	0	128	--	6.8	--	--	--	59	
1300	5050	22	C	8.3	222			1.17		.00	2.10		.19		--	--		1.5
07N/07E-14R01		M																
07/03/73	5050	69	F	7.3	240	--	--	10	--	0	130	--	5.5	--	--	--	105	
1550	5050	21	C	8.4	239			.44		.00	2.13		.16		--	--		0.4
07N/07E-33G01		M																
07/03/73	5050	70	F	7.3	240	--	--	15	--	0	125	--	15	--	--	--	98	
1425	5050	21	C	8.3	252			.65		.00	2.05		.42		--	--		0.7
08N/05E-06H01		M																
07/09/73	5050	65	F	7.9	460	--	--	21	--	0	185	--	63	--	--	--	187	
1000	5050	18	C	8.1	491			.91		.00	3.03		1.78		--	--		0.7
09N/04E-13F01		M																
07/10/73	5050	63	F	7.5	330	--	--	26	--	0	139	--	31	--	--	--	112	
1440	5050	17	C	7.8	338			1.13		.00	2.28		.87		--	--		1.1
09N/05E-16R01		M																
07/09/73	5050	68	F	7.5	220	--	--	8.7	--	0	121	--	7.9	--	--	--	77	
1250	5050	20	C	8.1	224			.38		.00	1.98		.22		--	--		0.4
09N/06E-34R01		M																
07/09/73	5050	67	F	7.3	225	--	--	11	--	0	111	--	8.9	--	--	--	95	
1200	5050	19	C	8.2	231			.48		.00	1.82		.25		--	--		0.5
09N/07E-10001		M																
07/09/73	5050	61	F	7.6	280	--	--	7.6	--	0	152	--	9.5	--	--	--	125	
1345	5050	16	C	8.2	273			.33		.00	2.49		.27		--	--		0.3
10N/03E-35P01		M																
10/26/72	5108			7.8		25	21	44	2.5	0	204	24	36	.9	--	1.0	315	165
	5108					1.25	1.77	1.94	.06	.00	3.34	.50	1.02	.01	--	--	255	0
10N/04E-30A01		M																
07/10/73	5050	64	F	7.5	440	--	--	35	--	0	258	--	15	--	--	--	156	
1350	5050	18	C	7.9	467			1.52		.00	4.23		.42		--	--		1.2
10N/05E-17H01		M																
07/10/73	5050	71	F	7.5	315	--	--	22	--	0	111	--	40	--	--	--	94	
0845	5050	22	C	8.1	317			.96		.00	1.82		1.13		--	--		1.0
5-21.09		YOLO COUNTY																
07N/03E-06R01		M																
07/20/73	5050	65	F	7.9	850	--	--	57	--	0	524	--	30	--	--	--	397	
0930	5050	18	C	8.2	880			2.48		.00	8.59		.85		--	--		1.2
08N/02E-13H02		M																
07/19/73	5050	65	F	7.7	1200	--	--	76	--	0	549	--	112	--	--	--	567	
1430	5050	18	C	8.1	1300			3.31		.00	9.00		3.16		--	--		1.4
08N/04E-09L01		M																
02/09/73	5050			7.3	435	41	48	50	1.6	0	284	82	69	.0	1.00	--	464	299
0225	5050				801	2.05	3.95	2.18	.04	.00	4.65	1.71	1.95	.00	--	--	432	68
02/09/73	5050			7.7	1500	89	36	142	9.0	0	148	2.8	403	.1	.60	--	1000	368
1100	5050					4.44	2.96	6.18	.23	.00	2.43	.06	11.36	.00	--	--	755	249
02/15/73	5050			7.8	1360	27	8.3	229	5.8	0	232	.8	308	.2	2.00	--	761	101
	5050					1.35	.68	9.96	.15	.00	3.80	.02	8.69	.00	--	--	695	0

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR		
5 5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																	
5-21.09		YOLO COUNTY																	
07/19/73	5050	65	F 7.3	1000	--	--	85	--	0	388	--	78	--	--	--	--	310		
1300	5050	18	C 8.2	914			3.70		.00	6.36		2.20							2.1
09N/01E-12A01																			
07/19/73	5050	66	F 7.9	2000	--	--	314	--	59	828	--	145	--	--	--	--	470		
1345	5050	19	C 8.6	1990			13.66		1.97	13.57		4.09							6.3
09N/02F-22H02																			
07/18/73	5050	65	F 7.6	500	--	--	38	--	0	248	--	34	--	--	--	--	197		
1415	5050	18	C 8.2	531			1.65		.00	4.06		.96							1.2
10N/01E-15H02																			
07/19/73	5050	68	F 7.8	500	--	--	39	--	0	254	--	35	--	--	--	--	194		
1230	5050	20	C 8.0	531			1.70		.00	4.16		.99							1.2
10N/02E-17J03																			
07/19/73	5050	67	F 7.9	540	--	--	66	--	0	278	--	39	--	--	--	--	158		
0940	5050	19	C 8.1	575			2.87		.00	4.56		1.10							2.3
10N/03E-32E01																			
07/17/73	5050	68	F 8.0	500	--	--	41	--	0	271	--	36	--	--	--	--	193		
1350	5050	20	C 8.0	546			1.78		.00	4.44		1.02							1.3
11N/01E-16P01																			
07/19/73	5050	66	F 7.9	460	--	--	53	--	0	270	--	22	--	--	--	--	144		
1030	5050	19	C 8.3	478			2.31		.00	4.43		.62							1.9
11N/02F-14F04																			
07/18/73	5050	69	F 8.0	385	--	--	25	--	0	195	--	15	--	--	--	--	153		
0800	5050	21	C 8.0	395			1.09		.00	3.20		.42							0.9
09N/01W-20J02																			
07/18/73	5050	64	F 7.5	700	--	--	38	--	0	342	--	49	--	--	--	--	306		
0900	5050	18	C 7.9	726			1.65		.00	5.61		1.38							0.9
09N/01W-21E01																			
07/18/73	5050	66	F 7.6	950	--	--	60	--	0	481	--	74	--	--	--	--	428		
1340	5050	19	C 8.2	1010			2.61		.00	7.88		2.09							1.3
10N/01W-27C01																			
07/18/73	5050	67	F 7.6	470	--	--	34	--	0	277	--	15	--	--	--	--	190		
1250	5050	19	C 7.9	492			1.48		.00	4.54		.42							1.1
10N/02W-01H02																			
07/18/73	5050	70	F 7.7	690	--	--	52	--	0	318	--	35	--	--	--	--	244		
0930	5050	21	C 8.2	664			2.26		.00	5.21		.99							1.4
10N/02W-26H01																			
07/18/73	5050	71	F 7.9	415	--	--	20	--	0	268	--	12	--	--	--	--	200		
1245	5050	22	C 7.9	445			.87		.00	4.39		.34							0.6
12N/01W-21A01																			
07/20/73	5050	65	F 8.1	850	--	--	145	--	0	332	--	85	--	--	--	--	116		
1100	5050	18	C 8.2	838			6.31		.00	5.44		2.40							5.9
5-21.11		SOLANO COUNTY																	
07/20/73	5050	66	F 8.1	775	5.9	8.6	158	.2	0	337	76	26	.1	1.20	--	--	470	51	
1030	5050	19	C 8.2	761	.29	.71	6.87	.01	.00	5.52	1.58	.73	.00	--	--	--	442	0	9.7
05N/01E-23R01																			
07/18/73	5050	64	F 7.4	1790	69	63	173	.3	0	321	88	289	68.0	.40	--	--	978	430	
1200	5050	18	C 7.9	1660	3.44	5.18	7.53	.01	.00	5.26	1.83	8.15	1.10	--	--	--	909	168	3.6
05N/01E-35801																			
07/20/73	5050	65	F 7.5	1125	--	--	100	--	0	537	--	93	--	--	--	--	398		
1130	5050	18	C 8.0	1090			4.35		.00	8.80		2.62							2.2
05N/01E-36A01																			
07/20/73	5050		7.9	660	--	--	84	--	0	338	--	29	--	--	--	--	165		
1215	5050		8.3	658			3.65		.00	5.54		.82							2.8
06N/01F-13J02																			
07/20/73	5050		7.3	850	--	--	67	--	0	342	--	62	--	--	--	--	300		
1300	5050		7.9	840			2.91		.00	5.61		1.75							1.7
06N/01E-19001																			
07/20/73	5050	65	F 7.5	1225	--	--	47	--	0	709	--	30	--	--	--	--	487		
1700	5050	18	C 8.0	1170			2.04		.00	11.62		.85							0.9
07N/02E-18R02																			

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER		
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	S	F	TDS SUM	TH NCH	SAR		
																		PERCENT REACTANCE VALUE	PERCENT REACTANCE VALUE
5 5-21		CENTRAL VALLEY REGION SACRAMENTO VALLEY																	
5-21.11		SOLANO COUNTY																	
07/23/73	5050	64	F	7.7	1150	--	--	44	--	0	525	--	37	--	--	--	460		
0930	5050	18	C	8.0	957			1.91		.00	8.60		1.04						0.9
								17											
07/23/73	5050	77	F	8.1	525	--	--	87	--	0	262	--	19	--	--	--	98		
1115	5050	25	C	8.1	537			3.78		.00	4.29		.54						3.8
								66											
07/20/73	5050			7.7	550	--	--	49	--	0	279	--	29	--	--	--	188		
1415	5050			7.9	558			2.13		.00	4.57		.82						1.6
								36											
07/20/73	5050	70	F	7.5	370	--	--	27	--	0	191	--	9.8	--	--	--	137		
1500	5050	21	C	7.8	385			1.17		.00	3.13		.28						1.0
								30											
5-22		SAN JOAQUIN VALLEY																	
5-22.01		SAN JOAQUIN COUNTY																	
09/18/73	4701							11	1.0	.5	131	3.0	73	.0	--	.1	297	34	
	4701			7.8	441	.55	.08	3.65	.03	.02	2.15	.06	2.06	.00		58.0	296	0	6.5
								13	2		50	1	48						
09/18/73	4701							40	19	.3	131	.0	173	1.0	--	.2	422	180	
	4701			7.5	766	2.00	1.56	3.26	.09	.01	2.15	.00	4.88	.02		45.0	421	70	2.4
								29	23		30		69						
09/18/73	4701							14	.0	.8	140	4.0	68	.0	--	.2	296	36	
	4701			7.9	428	.70	.00	3.52	.03	.03	2.29	.08	1.92	.00		59.0	297	0	6.0
								16	83	1	53	2	44						
10/19/72	4203							60	22	.86	86	4.2	230	.0	--	--	707	246	
	4203			7.2	890	3.03	1.86	3.74	.11	--	2.25	.00	6.49	.00		--			2.4
								35	21		43	1	74						
09/18/73	4701							20	8.0	.3	141	14	24	3.0	--	.2	224	82	
	4701			7.5	326	1.00	.66	1.61	.06	.01	2.31	.29	.68	.05		46.0	224	0	1.8
								30	20		69	9	20	1					
10/17/72	4203							29	4.1	.34	115	2.0	140	.0	--	--	432	90	
	4203			7.6	670	1.46	.34	5.00	.03	--	2.75	.04	3.95	.00		--			5.3
								21	5		73		59						
10/02/72	5110							10	5.0	.41	144	2.0	104	.0	--	--	474	45	
	5110			8.1	650	.50	.41	6.26	.05	.60	3.39	.08	2.93	.00		--	389	0	9.3
								7	6		87	1	42						
10/03/72	5110							66	38	.302	8.0	0	384	46	420	2.0	1258	320	
	5110			8.0	1900	3.29	3.13	13.14	.20	.00	6.29	.96	11.84	.03		--	1071	7	7.3
								17	16		66	1	62						
10/20/72	0001							122	55	.326	2.7	0	159	.5	762	.4	1540	533	
	0001			7.5	2680	6.09	4.52	14.18	.07	.00	2.61	.01	21.49	.01	--	.0	1388	400	6.2
								24	18		57		89						
10/20/72	0001							74	34	.236	2.8	0	157	.8	485	.4	1030	323	
	0001			7.6	1790	3.69	2.80	10.27	.07	.00	2.57	.02	13.68	.01	--	.0	945	196	5.7
								22	17		61		84						
10/17/72	4203							46	20	.240	2.6	--	18	.0	500	.0	1181	200	
	4203			9.3	1412	2.32	1.66	10.44	.07	--	.30	.00	14.10	.00		--			7.4
								16	11		72		98						
09/18/73	4701							21	2.0	.99	1.3	.9	171	1.0	97	.0	397	60	
	4701			7.9	568	1.05	.16	4.31	.03	.03	2.80	.02	2.74	.00	--	.1	367	0	5.5
								19	3		78	1	50						
09/18/73	4701							31	14	.107	3.8	.5	172	1.0	159	.0	458	136	
	4701			7.6	774	1.55	1.15	4.65	.10	.02	2.82	.02	4.48	.00	--	.2	457	0	4.0
								21	15		62	1	38						
09/18/73	4701							42	19	.31	4.0	.3	129	7.0	100	1.0	317	186	
	4701			7.6	544	2.10	1.56	1.35	.10	.01	2.11	.15	2.82	.02	--	.2	317	77	1.0
								41	31		26	2	41						
09/20/73	4701							35	11	.82	1.9	.5	148	2.0	135	.0	400	132	
	4701			7.7	670	1.75	.90	3.57	.05	.02	2.43	.04	3.81	.00	--	.1	400	10	3.1
								28	14		57	1	39						

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REFRACTANCE VALUE					MILLIGRAMS PER LITER						
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH	SAR		
																		PH	EC
CENTRAL VALLEY REGION SAN JOAQUIN VALLEY																			
SAN JOAQUIN COUNTY																			
09/18/73	4701 4701			7.8	609	2.15	1.40	2.18	.08	.7	177	.0	103	2.0	--	.1	360	178	1.6
						37	24	38	1	.02	2.90	.00	2.90	.03		54.0	360	32	
10/03/72	5110 5110			7.5	3900	9.68	5.35	20.27	.20	0	159	16	1170	16.0	--	--	2086	753	7.4
						27	15	57	1	.00	2.61	.33	32.99	.26		--	2013	621	
10/03/72	5110 5110			7.7	4500	9.78	5.76	20.88	.20	0	155	14	1190	17.0	--	--	2122	775	7.5
						27	16	57	1	.00	2.54	.29	33.56	.27		--	2051	651	
10/16/72	4203 4203			7.6	820	1.56	1.58	5.22	.06	--	179	2.0	205	.0	--	--	545	158	4.2
						19	19	62	1		2.93	.04	5.78	.00		--			
10/02/72	5110 5110			7.6	2500	10.48	3.87	11.31	.23	0	390	43	624	10.0	--	--	1584	720	4.2
						40	15	44	1	.00	6.39	.90	17.60	.16		--	1395	398	
10/02/72	5110 5110			7.8	1550	6.09	2.96	6.57	.20	0	281	22	384	1.0	--	--	997	455	3.1
						38	19	42	1	.00	4.61	.46	10.83	.02		--	862	222	
10/02/72	5110 5110			8.0	700	1.80	1.40	4.00	.10	0	214	12	128	1.0	--	--	500	160	3.2
						25	19	55	1	.00	3.51	.25	3.61	.02		--	395	0	
10/02/72	5110 5110			8.1	680	2.40	1.23	3.57	.13	0	232	14	116	2.0	--	--	509	180	2.6
						33	17	49	2	.00	3.80	.29	3.27	.03		--	396	0	
10/02/72	5110 5110			7.9	1850	5.59	3.62	9.79	.18	0	409	31	400	36.0	--	--	1257	460	4.6
						29	19	51	1	.00	6.70	.65	11.28	.58		--	1056	126	
09/18/73	4701 4701			8.1	238	6.0	2.0	47	1.3	1.1	132	1.0	9.0	1.0	--	.2	192	22	4.2
						.30	.16	2.04	.03	.04	2.16	.02	.25	.02		59.0	192	0	
06/26/73	5050 1345	75 F 24 C	7.9 8.3	320 338	--	--	23	--	1.0	132	--	28	--	--	--	--	--	114	0.9
								1.00	.03	2.16		.79							
09/18/73	4701 4701			7.8	270	.70	.33	1.70	.04	.5	136	1.0	15	.0	--	.1	196	50	2.4
						25	12	61	1	.02	2.23	.02	.42	.00		55.0	197	0	
09/18/73	4701 4701			7.8	429	1.50	.58	2.04	.06	.5	131	17	59	.0	--	.1	276	102	2.0
						36	14	49	1	.02	2.15	.35	1.66	.00		50.0	277	0	
06/26/73	5050 1230	69 F 21 C	7.1 7.9	590 653	--	--	30	--	0	333	--	32	--	--	--	--	--	290	0.8
								1.31	.00	5.46		.90							
06/26/73	5050 1145	67 F 19 C	7.3 8.3	225 226	--	--	12	--	1.0	100	--	12	--	--	--	--	--	83	0.6
								.52	.03	1.64		.34							
10/02/72	5110 5110			8.0	280	1.00	1.32	.74	.13	0	159	8.0	14	5.0	--	--	239	118	0.7
						31	41	23	4	.00	2.61	.17	.39	.08		--	163	0	
10/02/72	5110 5110			8.1	460	2.50	1.23	1.39	.10	0	271	18	14	11.0	--	--	411	188	1.0
						48	24	27	2	.00	4.44	.37	.39	.18		--	277	0	
10/04/72	5110 5110			7.9	570	3.24	1.81	1.00	.13	0	247	31	40	31.0	--	--	459	255	0.6
						52	29	16	2	.00	4.05	.65	1.13	.50		--	338	50	
10/17/72	4203 4203			7.3	375	1.96	1.10	.74	.10	--	168	14	30	1.3	--	--	291	154	0.6
						50	28	19	3		2.75	.30	.85	.02		--			
06/26/73	5050 1515	65 F 18 C	7.7 8.4	490 510	--	--	19	--	14	186	--	27	--	--	--	--	--	230	0.5
								.83	.47	3.05		.76							

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
				MILLIEQUIVALENTS PER LITER										PERCENT REACTANCE VALUE				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
		CENTRAL VALLEY REGION SAN JOAQUIN VALLEY																
		SAN JOAQUIN COUNTY																
5 5-22																		
5-22.01																		
02N/06E-16003		M																
10/03/72	5110			26	10	16	6.0	0	146	10	8.0	1.0	--	--	217	105		
	5110		8.1 260	1.30 44	.82 28	.70 24	.15 5	.00	2.39 84	.21 7	.23 8	.02 1	--	--	149	0	0.7	
02N/06E-16E01		M																
10/03/72	5110			30	15	22	7.0	0	171	19	26	4.0	--	--	287	135		
	5110		8.0 360	1.50 39	1.23 32	.96 25	.18 5	.00	2.80 70	.40 10	.73 18	.06 2	--	--	207	0	0.8	
02N/06E-16H01		M																
10/17/72	4203			72	43	28	3.5	--	168	15	190	.0	--	--	820	360		
	4203		7.4 850	3.59 42	3.55 42	1.22 14	.09 1	--	2.75 33	.31 4	5.36 64	.00	--	--			0.6	
02N/06E-17A01		M																
10/03/72	5110			44	17	19	3.0	0	189	22	32	11.0	--	--	334	180		
	5110		8.0 420	2.20 49	1.40 31	.83 18	.08 2	.00	3.10 67	.46 10	.90 19	.18 4	--	--	241	25	0.6	
02N/06E-17J01		M																
10/17/72	4203			46	15	17	4.2	--	179	21	40	2.7	--	--	319	180		
	4203		7.4 450	2.32 52	1.27 29	.74 17	.11 2	--	2.93 64	.45 10	1.13 25	.04 1	--	--			0.6	
02N/06E-19L01		M																
10/04/72	5110			26	8.0	130	3.0	0	247	13	112	2.0	--	--	538	100		
	5110		8.1 700	1.30 17	.66 9	5.66 74	.08 1	.00	4.05 54	.27 4	3.16 42	.03	--	--	415	0	5.7	
02N/06E-19P01		M																
10/04/72	5110			42	13	187	4.0	0	253	17	254	.0	--	--	766	160		
	5110		7.9 1150	2.10 18	1.07 9	8.13 71	.10 1	.00	4.15 36	.35 3	7.16 61	.00	--	--	641	0	6.5	
02N/06E-19P02		M																
10/04/72	5110			110	34	148	4.0	0	293	168	230	.0	--	--	983	415		
	5110		7.5 1400	5.49 37	2.80 19	6.44 43	.10 1	.00	4.80 32	3.50 24	6.49 44	.00	--	--	838	175	3.2	
02N/06E-20F01		M																
10/17/72	4203			33	7.4	16	2.4	--	151	5.5	17	1.4	--	--	230	114		
	4203		7.5 310	1.66 54	.61 20	.72 24	.06 2	--	2.47 80	.11 4	.48 16	.02 1	--	--			0.7	
02N/06E-20J01		M																
10/04/72	5110			20	14	30	6.0	0	183	14	16	1.0	--	--	278	108		
	5110		8.1 330	1.00 28	1.15 32	1.31 36	.15 4	.00	3.00 80	.29 8	.45 12	.02 1	--	--	191	0	1.3	
02N/06E-20L01		M																
10/04/72	5110			15	3.0	71	5.0	0	220	5.0	24	2.0	--	--	340	53		
	5110		8.2 380	.75 18	.25 6	3.09 73	.13 3	.00	3.61 82	.10 2	.68 15	.03 1	--	--	233	0	4.4	
02N/06E-20M02		M																
10/17/72	4203			27	7.2	41	4.0	--	182	4.0	24	.1	--	--	285	98		
	4203		7.2 395	1.36 36	.59 15	1.78 46	.10 3	--	2.98 80	.08 2	.68 18	.00	--	--			1.8	
02N/06E-21C01		M																
10/03/72	5110			42	16	22	6.0	0	201	20	26	.0	--	--	327	170		
	5110		8.0 400	2.10 46	1.32 29	.96 21	.15 3	.00	3.29 74	.42 9	.73 16	.00	--	--	231	7	0.7	
02N/06E-21C02		M																
10/03/72	5110			30	10	25	4.0	0	171	17	20	2.0	--	--	275	165		
	5110		8.0 340	1.50 43	.82 23	1.09 31	.10 3	.00	2.80 75	.35 9	.56 15	.03 1	--	--	192	0	1.0	
02N/06E-21F01		M																
10/03/72	5110			72	29	32	3.0	0	284	65	46	11.0	--	--	539	300		
	5110		7.8 670	3.59 48	2.38 32	1.39 19	.08 1	.00	4.65 62	1.35 18	1.30 17	.18 2	--	--	398	66	0.8	
02N/06E-21F02		M																
10/03/72	5110			34	7.0	21	6.0	0	159	12	14	.0	--	--	247	165		
	5110		8.1 320	1.70 51	.58 17	.91 27	.15 4	.00	2.61 80	.25 8	.39 12	.00	--	--	172	0	0.9	
02N/06E-21K01		M																
09/18/73	4701			35	14	20	4.7	.7	184	21	18	.0	--	.1	250	146		
	4701		7.8 373	1.75 45	1.15 30	.87 22	.12 3	.02 1	3.02 76	.44 11	.51 13	.00	--	59.0	263	0	0.7	
02N/06E-22001		M																
09/18/73	4701			31	15	25	4.2	.6	187	22	16	3.0	--	.2	254	138		
	4701		7.7 374	1.55 39	1.23 31	1.09 27	.11 3	.02	3.06 76	.46 11	.45 11	.05 1	--	46.0	255	0	0.9	
02N/06E-29M01		M																
10/03/72	5110			12	7.0	92	1.0	0	220	4.0	52	.0	--	--	387	60		
	5110		8.2 470	.60 12	.58 11	4.00 77	.03 1	.00	3.61 70	.08 2	1.47 28	.00	--	--	276	0	5.2	
02N/06E-30801		M																
10/04/72	5110			21	7.0	138	3.0	0	290	2.0	106	1.0	--	--	565	80		
	5110		8.1 730	1.05 14	.58 8	6.00 78	.08 1	.00	4.75 61	.04 1	2.99 38	.02	--	--	421	0	6.7	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					
														B	F	TDS SUM	TH NCH	SAR	
		CENTRAL VALLEY REGION																	
		SAN JOAQUIN VALLEY																	
		SAN JOAQUIN COUNTY																	
	5 5-22																		
	5-22.01																		
	02N/06E-33N01																		
09/18/73	4701	M			11	3.0	75	1.5	1.0	179	1.0	37	.0	--	.4	277	42		
	4701		7.9	394	.55	.25	3.26	.04	.03	2.93	.02	1.04	.00	--	59.0	277	0	5.2	
					13	6	80	1	1	73		26							
	02N/06E-36A01																		
09/18/73	4701	M			40	12	18	6.0	.8	196	11	14	8.0	--	.1	269	148		
	4701		7.8	369	2.00	.99	.78	.15	.03	3.21	.23	.39	.13	--	63.0	269	0	0.6	
					51	25	20	4	1	80	6	10	3						
	02N/07E-07002																		
10/02/72	5110	M			34	24	18	6.0	0	235	28	10	3.0	--	--	352	183		
	5110		7.8	410	1.70	1.97	.78	.15	.00	3.85	.58	.28	.05	--	--	239	0	0.6	
					37	43	17	3		81	12	6	1						
	02N/07E-12J02																		
06/27/73	5050	M	64	F	7.5	700	--	--	27	--	0	202	--	20	48.0	--	--	220	
	0800		18	C	8.2	558			1.17		.00	3.31		.56	.77			0.8	
									21			71		12	17				
	02N/07E-20E04																		
06/26/73	5050	M	69	F	7.5	350	--	--	17	--	0	183	--	7.2	--	--	--	145	
	1430		21	C	8.0	366			.74		.00	3.00		.20	--			0.6	
									20										
	02N/08E-21J01																		
06/27/73	5050	M	67	F	7.3	250	--	--	7.2	--	0	151	--	5.2	--	--	--	103	
	0845		19	C	8.1	254			.31		.00	2.47		.15	--			0.3	
									13										
	03N/06E-15005																		
10/02/72	5110	M			34	18	22	6.0	0	165	12	28	14.0	--	--	293	160		
	5110		7.9	400	1.70	1.48	.96	.15	.00	2.70	.25	.79	.23	--	--	215	24	0.8	
					40	34	22	3		68	6	20	6						
	03N/06E-17H03																		
07/02/73	5050	M	67	F	7.3	400	--	--	24	--	10	199	--	10	--	--	--	167	
	0900		19	C	8.5	414			1.04		.33	3.26		.28	--			0.8	
									24										
	03N/07E-16C06																		
06/27/73	5050	M	68	F	7.1	300	--	--	21	--	0	147	--	12	--	--	--	110	
	1350		20	C	7.9	306			.91		.00	2.41		.34	--			0.9	
									29										
	03N/08E-15A02																		
06/27/73	5050	M	71	F	7.3	170	--	--	18	--	0	83	--	7.2	--	--	--	46	
	1030		22	C	8.1	171			.78		.00	1.36		.20	--			1.2	
									46										
	04N/05E-24J03																		
07/02/73	5050	M	65	F	7.7	480	--	--	41	--	0	288	--	11	--	--	--	182	
	0820		18	C	8.2	501			1.78		.00	4.72		.31	--			1.3	
									33										
	04N/06E-16R07																		
07/02/73	5050	M	65	F	7.3	180	--	--	12	--	0	101	--	4.5	--	--	--	66	
	0730		18	C	8.0	181			.52		.00	1.66		.13	--			0.6	
									28										
	04N/06E-34E05																		
10/02/72	5110	M			8.0	7.0	11	2.0	0	67	10	6.0	3.0	--	--	112	50		
	5110		7.8	130	.40	.58	.48	.05	.00	1.10	.21	.17	.05	--	--	80	0	0.7	
					26	38	32	3		72	14	11	3						
	04N/07E-15E01																		
07/02/73	5050	M	68	F	7.1	345	--	--	20	--	3.0	144	--	24	--	--	--	131	
	1200		20	C	8.4	358			.87		.10	2.36		.68	--			0.8	
									25										
	04N/07E-29E02																		
07/02/73	5050	M	68	F	7.1	320	--	--	17	--	2.0	129	--	17	--	--	--	118	
	1010		20	C	8.3	313			.74		.07	2.11		.48	--			0.7	
									24										
	04N/08E-22K02																		
07/02/73	5050	M	70	F	7.1	250	--	--	13	--	1.0	124	--	16	--	--	--	94	
	1300		21	C	8.3	254			.57		.03	2.03		.45	--			0.6	
									23										
	05N/08E-26P01																		
07/02/73	5050	M	73	F	7.3	135	--	--	12	--	1.0	59	--	5.2	--	--	--	38	
	1445		23	C	8.3	135			.52		.03	.97		.15	--			0.8	
									41										
	01S/06E-23C02																		
06/26/73	5050	M	66	F	7.5	560	--	--	64	--	0	149	--	103	--	--	--	135	
	0800		19	C	8.2	595			2.78		.00	2.44		2.90	--			2.4	
									51										
	01S/07E-21G01																		
06/26/73	5050	M	67	F	7.5	300	--	--	21	--	0	103	--	7.7	--	--	--	97	
	0845		19	C	8.0	313			.91		.00	1.69		.22	--			0.9	
									32										
	01S/08E-16R01																		
06/26/73	5050	M	68	F	7.7	330	--	--	21	--	0	174	--	11	--	--	--	128	
	0945		20	C	8.0	347			.91		.00	2.85		.31	--			0.8	
									26										

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MILLIGRAMS PER LITER											MILLIGRAMS PER LITER				
				MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER							B	F	TDS SUM	TH NCH	SAR
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT RFRACTANCE VALUE						
5 5-22		CENTRAL VALLEY REGION SAN JOAQUIN VALLEY																	
5-22.01		SAN JOAQUIN COUNTY																	
06/26/73 1030	5050 5050	M	74 F 7.3 490	--	--	23	--	6.0	249	--	27	--	--	--	--	--	221	0.7	
			23 C 8.4 516			1.00	.20	4.08		.76									
06/22/73 0930	5050 5050	M	66 F 7.5 3200	170	102	322	1.4	0	342	201	726	2.0	3.50	--	2280	844	4.8		
			19 C 8.3 3500	8.48	8.39	14.01	.04	.00	5.61	4.18	20.47	.03	--	1696	563				
06/25/73 1200	5050 5050	M	67 F 7.4 1600	--	--	125	--	0	195	--	221	--	--	--	524	2.4			
			19 C 8.1 1560			5.44	.00	3.20		6.23									
06/07/73 1020	5050 5050	M		24	13	117	1.1	0	168	155	51	1.7	.50	--	502	114	4.6		
			8.3	760	1.20	1.07	5.09	.03	.00	2.75	3.23	1.44	.03	--	446	0			
06/07/73 0930	5050 5050	M		35	23	103	1.7	0	149	160	78	.1	.50	--	550	184	3.3		
			8.1	835	1.75	1.89	4.48	.04	.00	2.44	3.33	2.20	.00	--	475	60			
06/07/73 0950	5050 5050	M		39	16	100	2.0	0	150	177	59	1.7	.40	--	500	163	3.4		
			8.2	771	1.95	1.32	4.35	.05	.00	2.46	3.69	1.66	.03	--	469	41			
06/25/73 1230	5050 5050	M	66 F 7.5 530	--	--	30	--	1.0	158	--	15	--	--	--	134	1.1			
			19 C 8.3 409			1.31	.03	2.59		.42									
06/25/73 1400	5050 5050	M	66 F 7.3 255	--	--	13	--	0	83	--	5.4	--	--	--	97	0.6			
			19 C 7.9 264			.57	.00	1.36		.15									
06/22/73 1215	5050 5050	M	70 F 7.5 600	--	--	45	--	0	188	--	65	--	--	--	225	1.3			
			21 C 8.2 644			1.96	.00	3.08		1.83									
5-22.51		EAST CONTRA COSTA AREA																	
08/09/73 1500	5050 5050	M	69 F 7.7 1175	68	34	108	.3	0	278	97	139	16.0	1.60	--	612	311	2.7		
			21 C 7.8 1080	3.39	2.80	4.70	.01	.00	4.56	2.02	3.92	.26	--	601	82				
08/03/73 1300	5050 5050	M	68 F 7.6 1700	--	--	176	--	0	332	--	258	--	--	--	454	3.6			
			20 C 8.1 1650			7.66	.00	5.44		7.28									
08/09/73 1630	5050 5050	M	70 F 7.8 4000	52	22	558	5.5	0	332	160	697	9.4	6.50	--	1720	222	16.4		
			21 C 8.0 3090	2.59	1.81	24.27	.14	.00	5.44	3.33	19.66	.15	--	1674	0				
5-30		LOWER LAKE																	
07/25/73 1315	5050	M	73.0F 6.4 200	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			22.8C																
07/25/73 1330	5050	M	62.0F 6.8 360	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			16.7C																
07/25/73 1210	5050	M	65.0F 6.5 640	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			18.3C																
07/25/73 1245	5050	M	63.0F 6.3 590	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
			17.2C																
07/25/73 1225	5050 5050	M	70.0F 7.1 3400	111	130	475	1.6	0	260	1340	154	21.0	1.00	--	2490	811	7.3		
			21.1C 8.1 3180	5.54	10.69	20.66	.04	.00	4.26	27.90	4.34	.34	--	2361	599				

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN											MILLIGRAMS PER LITER					MILLIGRAMS PER LITER													
				MILLIEQUIVALENTS PER LITER											PERCENT REACTANCE VALUE					B	F	TDS SUM	TH NCH	SAR									
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3																					
6 6-01		LAHONTAN REGION SURPRISE VALLEY																															
08/01/73 1525	5050	40N/16E-11601	M	55.0F 12.8C	7.9	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1315	5050 5050	40N/16E-36F01	M	57.0F 13.9C	7.1	350 340	--	--	--	--	--	--	--	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	--
08/01/73 1330	5050 5050	40N/16E-36G01	M	54.0F 12.2C	7.2 8.5	340 306	32	14	14	2.6	3.0	185	5.4	1.4	6.7	.00	--	--	189	136	--	--	--	--	--	--	--	--	--	--	--	0	0.5
09/13/73 1215	5050	40N/17E-20C01	M	56.0F 13.3C	7.9	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/01/73 1355	5050	40N/17E-31P01	M	55.0F 12.8C	6.9	315	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/01/73 1655	5050	41N/16E-09A02	M	60.0F 15.5C	7.9	245	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1605	5050	41N/16E-25C03	M	56.0F 13.3C	8.0	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1535	5050 5050	41N/16E-35D02	M	57.0F 13.9C	7.5	155 137	--	--	--	--	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55	--	--
08/01/73 1550	5050 5050	41N/16E-35F01	M	67.0F 19.4C	7.1 8.2	165 153	17	5.2	6.7	1.3	0	96	3.8	.5	4.0	.00	--	--	110	64	--	--	--	--	--	--	--	--	--	86	0	0.4	--
08/01/73 1300	5050 5050	42N/16E-05F01	M	57.0F 13.9C	7.7 8.3	365 301	34	10	18	1.3	0	181	8.2	.9	6.2	.00	--	--	180	126	--	--	--	--	--	--	--	--	168	0	0.7	--	
08/01/73 1650	5050	42N/16E-08E01	M	61.0F 16.1C	8.1	290	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1720	5050 5050	42N/16E-34F01	M	62.0F 16.7C	8.1	310 288	--	--	--	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50	--	--
08/01/73 0835	5050 5050	43N/16E-05L01	M	57.0F 13.9C	7.6 8.3	275 260	29	9.4	14	1.0	0	156	6.6	2.8	6.6	.00	--	--	166	111	--	--	--	--	--	--	--	--	146	0	0.6	--	
08/01/73 0815	5050 5050	43N/16E-07A03	M	53.0F 11.7C	7.0	235 224	--	--	--	--	--	--	--	2.4	--	.00	--	--	--	--	--	--	--	--	--	--	--	--	--	92	--	--	--
08/01/73 0810	5050	43N/16E-08D01	M	69.0F 20.5C	7.1	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 0745	5050	43N/16E-20B01	M	62.0F 16.7C	7.9	295	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 0735	5050 5050	43N/16E-32K01	M	64.0F 17.8C	7.8 8.3	365 366	37	8.9	28	.4	0	208	8.2	4.3	12.0	.10	--	--	203	129	--	--	--	--	--	--	--	--	201	0	1.1	--	
08/01/73 0725	5050	43N/16E-33M03	M	59.0F 15.0C	7.5	470	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1805	5050 5050	43N/17E-21J01	M	76.0F 24.4C	8.4 8.5	420 438	13	5.7	70	9.0	3.0	182	28	22	2.7	.40	--	--	312	56	--	--	--	--	--	--	--	243	0	4.1	--	--	
08/01/73 0930	5050	44N/15E-36F02	M	58.0F 14.4C	6.7	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
6-01		LAHONTAN REGION SURPRISE VALLEY																
08/01/73 0931	5050 5050	54.0F 12.2C	7.0 8.6	460 431	48 2.40 49	18 1.48 30	23 1.00 20	1.0 .03 1	12 .40 8	271 4.44 90	3.3 .07 1	1.1 .03 1	.7 .01	.00 --	--	263 240	196 0	0.7
08/01/73 1015	5050	59.0F 15.0C	7.1	285	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 0950	5050	65.0F 18.3C	8.0	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1045	5050	52.0F 11.1C	6.5	155	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1030	5050	59.0F 15.0C	7.5	375	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/01/73 1125	5050	55.0F 12.8C	7.7	350	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-02		MADELINE PLAIN																
08/02/73 0800	5050	58.0F 14.4C	8.0	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/03/73 1300	5050 5050	59.0F 15.0C	7.4 8.1	270 253	--	--	--	--	0 .00	150 2.46	--	3.8 .11	--	--	--	--	105	--
08/02/73 1200	5050	63.0F 17.2C	7.6	140	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/73 1055	5050	55.0F 12.8C	7.2	950	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/03/73 1010	5050	60.0F 15.5C	7.5	450	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/02/73 1020	5050	53.0F 11.7C	7.6	3050	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-03		WILLOW CREEK VALLEY																
06/14/73 0705	5050 5050	53.0F 11.7C	7.6	240 238	--	--	--	--	--	--	--	6.6 .19	5.2 .08	--	--	--	--	75
06/14/73 0635	5050	54.0F 12.2C	7.3	370	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-04		HONEY LAKE VALLEY																
06/14/73 1230	5050	65.0F 18.3C	7.2	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/14/73 1145	5050	58.0F 14.4C	7.3	455	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/14/73 1130	5050 5050	60.0F 15.5C	7.6	300 284	--	--	--	--	--	--	--	13 .37	--	--	--	--	--	12
06/14/73 1155	5050	67.0F 19.4C	7.0	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/13/73 1245	5050	67.0F 19.4C	6.9	255	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER							
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SIO2	F	TDS SUM	TH NCH	SAR			
6 6-04		LAHONTAN REGION HONEY LAKE VALLEY																		
06/14/73 0955	5050 5050	60.0F 15.5C	6.8 7.0	197 186	--	--	--	--	0 .00	71 1.16 75	--	5.8 .16 10	14.0 .23 15	--	--			53		
06/14/73 0950	5050	65.0F 18.3C	6.8	190	--	--	--	--	--	--	--	--	--	--	--					
06/11/73 1350	5050	58.0F 14.4C	6.4	215	--	--	--	--	--	--	--	--	--	--	--					
06/13/73 1230	5050	66.0F 18.9C	6.8	205	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1225	5050 5050	57.0F 13.9C	7.6 8.1	1600 1490	44 2.20 15	24 1.97 14	231 10.05 70	5.6 .14 1	0 .00	304 4.98 34	67 1.39 10	288 8.12 56	4.8 .08 1	.30	--	852 814	211 0	7.0		
06/11/73 1435	5050 5050	72.0F 22.2C	7.4 8.4	480 460	5.7 .28 6	3.9 .32 7	88 3.83 84	6.0 .15 3	1.0 .03 1	221 3.62 78	12 .25 5	14 .39 8	21.0 .34 7	.30	--	342 261	30 0	7.0		
06/11/73 1515	5050	62.0F 16.7C	7.8	395	--	--	--	--	--	--	--	--	--	--	--					
06/13/73 1150	5050	58.0F 14.4C	7.3	775	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1500	5050 5050	61.0F 16.1C	8.1 8.6	305 290	4.7 .23 8	.8 .07 3	56 2.44 87	2.5 .06 2	2.0 .07 2	117 1.92 66	24 .50 17	14 .39 13	.7 .01	.10	--	191 162	15 0	6.3		
06/12/73 1515	5050 5050	80.0F 26.6C	8.0	258 241	--	--	--	--	--	--	--	8.0 .23	--	.10	--			23		
06/12/73 0745	5050 5050	56.0F 13.3C	7.3 7.8	470 471	--	--	62 2.70 61	--	0 .00	132 2.16	--	30 .85	--	--	--			87	2.9	
06/11/73 1300	5050	56.0F 13.3C	7.0	225	--	--	--	--	--	--	--	--	--	--	--					
06/11/73 1315	5050	67.0F 19.4C	7.8	235	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 0900	5050 5050	64.0F 17.8C	7.6 8.3	810 785	5.9 .29 4	1.6 .13 2	161 7.00 92	6.0 .15 2	1.0 .03	220 3.61 49	106 2.21 30	33 .93 13	41.0 .66 9	1.00	--	540 465	21 0	15.2		
06/12/73 0920	5050	65.0F 18.3C	7.5	710	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1130	5050	57.0F 13.9C	8.0	1900	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1110	5050	58.0F 14.4C	7.8	1450	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1055	5050	61.0F 16.1C	7.4	1900	--	--	--	--	--	--	--	--	--	--	--					
06/12/73 1015	5050 5050	57.0F 13.9C	7.4 8.3	1270 1200	--	--	--	--	0 .00	530 8.69	--	40 1.13	--	--	--			153		
06/12/73 1030	5050 5050	58.0F 14.4C	7.6 8.4	2350 2150	45 2.25 10	20 1.64 7	438 19.05 82	13 .33 1	3.0 .10	862 14.13 60	268 5.58 24	106 2.99 13	47.0 .76 3	4.70	--	1440 1369	193 0	13.7		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER										MILLIGRAMS PER LITER								
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR					
				LAHONTAN REGION HONEY LAKE VALLEY																		
6-04																						
06/12/73	5050	63.0F	7.9	1025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1315	5050	17.2C																				
06/12/73	5050	59.0F	7.7	620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1245	5050	15.0C																				
06/12/73	5050	84.0F	7.9	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1420	5050	28.9C																				
06/13/73	5050	72.0F	7.3	550	24	9.0	77	2.9	0	139	92	39	.7	.80	--	358	97					
1000	5050	22.2C	8.1	555	1.20	.74	3.35	.07	.00	2.28	1.92	1.10	.01	--	--	314	0	3.4				
					22	14	63	1		43	36	21										
06/12/73	5050	60.0F	7.2	490	27	20	33	6.5	0	203	51	8.2	5.7	.10	--	294	152					
0955	5050	15.5C	8.0	453	1.35	1.64	1.44	.17	.00	3.33	1.06	.23	.09	--	--	251	0	1.2				
					29	36	31	4		71	23	5	2									
				TAHOE VALLEY																		
6-05																						
6-05.01		SOUTH TAHOE VALLEY																				
09/13/73	5050	52 F	6.9	205	--	--	8.2	--	0	47	--	12	--	--	--	--	--	--	69			
0730	5050	11 C	6.7	196			.36		.00	.77		.34								0.4		
							21															
09/13/73	5050	48 F	6.7	135	--	--	5.8	--	0	59	--	4.6	--	--	--	--	--	--	45			
0800	5050	9 C	7.4	109			.25		.00	.97		.13								0.4		
							22															
09/13/73	5050	56 F	8.1	80	--	--	5.2	--	0	48	--	.0	--	--	--	--	--	--	30			
0910	5050	13 C	7.5	76			.23		.00	.79		.00								0.4		
							28															
6-05.02		NORTH TAHOE VALLEY																				
09/13/73	5050	50 F	7.3	150	--	--	5.6	--	0	94	--	1.8	--	--	--	--	--	--	66			
1440	5050	10 C	7.5	148			.24		.00	1.54		.05								0.3		
							15															
09/13/73	5050	52 F	6.9	125	--	--	4.4	--	0	79	--	.3	--	--	--	--	--	--	54			
1535	5050	11 C	7.6	120			.19		.00	1.29		.01								0.3		
							15															
09/13/73	5050	43 F	6.5	165	--	--	4.2	--	0	89	--	4.2	--	--	--	--	--	--	74			
1340	5050	6 C	7.7	161			.18		.00	1.46		.12								0.2		
							11															
09/13/73	5050	44 F	6.3	110	--	--	4.3	--	0	63	--	.3	--	--	--	--	--	--	43			
1410	5050	7 C	7.5	99			.19		.00	1.03		.01								0.3		
							18															
09/13/73	5050	57 F	6.7	145	--	--	7.6	--	0	68	--	7.2	--	--	--	--	--	--	49			
1615	5050	14 C	7.4	131			.33		.00	1.11		.20								0.5		
							25															
09/18/73	5050	45 F	6.5	205	--	--	5.0	--	0	74	--	3.2	--	--	--	--	--	--	87			
1015	5050	7 C	7.6	199			.22		.00	1.21		.09								0.2		
							11															
09/18/73	5050	45 F	6.3	145	--	--	4.2	--	0	53	--	3.0	--	--	--	--	--	--	57			
1025	5050	7 C	7.3	130			.18		.00	.87		.08								0.2		
							14															
09/13/73	5050	48 F	6.9	135	--	--	3.8	--	0	75	--	3.0	--	--	--	--	--	--	60			
1200	5050	9 C	7.6	128			.17		.00	1.23		.08								0.2		
							12															
09/13/73	5050	54 F	7.1	285	--	--	12	--	0	156	--	9.7	--	--	--	--	--	--	124			
1220	5050	12 C	7.5	287			.52		.00	2.56		.27								0.5		
							17															
09/13/73	5050	69 F	8.1	95	--	--	6.0	--	0	54	--	1.4	--	--	--	--	--	--	32			
1305	5050	21 C	7.4	94			.26		.00	.89		.04								0.5		
							29															
6-06		CARSON VALLEY																				
09/12/73	5050	66 F	6.7	125	--	--	7.9	--	0	79	--	.0	--	--	--	--	--	--	48			
1300	5050	19 C	7.4	130			.34		.00	1.29		.00								0.5		
							26															

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC		MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				
					MILLIEQUIVALENTS PER LITER										PERCENT REFRACTANCE VALUE				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
6 6-06		LAHONTAN REGION CARSON VALLEY																	
11N/19E-35K01		M																	
09/12/73	5050	52	F	6.5	75	--	--	5.5	--	0	43	--	.1	--	--	--	26	0.5	
1240	5050	11	C	7.2	72			.24		.00	.70		.00		--	--			
11N/20E-07M01		M																	
09/12/73	5050	57	F	6.3	105	--	--	5.7	--	0	57	--	1.9	--	--	--	39	0.4	
1200	5050	14	C	7.0	105			.25		.00	.93		.05		--	--			
6-07		TOPAZ VALLEY																	
08N/23E-16P01		M																	
09/11/73	5050	56	F	7.5	285	--	--	27	--	0	175	--	3.0	--	--	--	96	1.2	
1330	5050	13	C	8.0	291			1.17		.00	2.87		.08		--	--			
08N/23E-28E03		M																	
09/11/73	5050	67	F	7.3	280	--	--	38	--	0	76	--	15	--	--	--	54	2.3	
1445	5050	19	C	7.4	288			1.65		.00	1.25		.42		--	--			
08N/23E-29C02		M																	
09/11/73	5050	69	F	6.9	135	--	--	8.9	--	0	76	--	4.2	--	--	--	49	0.6	
1415	5050	21	C	6.9	138			.39		.00	1.25		.12		--	--			
09N/22E-24D01		M																	
09/11/73	5050	61	F	7.5	145	--	--	14	--	0	79	--	3.4	--	--	--	45	0.9	
1030	5050	16	C	7.5	145			.61		.00	1.29		.10		--	--			
09N/22E-24M01		M																	
09/11/73	5050	58	F	7.3	210	--	--	17	--	0	112	--	3.7	--	--	--	72	0.9	
1050	5050	14	C	7.7	211			.74		.00	1.84		.10		--	--			
09N/23E-20P01		M																	
09/11/73	5050	56	F	7.5	295	--	--	10	--	0	168	--	5.5	--	--	--	136	0.4	
1225	5050	13	C	7.9	296			.44		.00	2.75		.16		--	--			
09N/23E-30C02		M																	
09/11/73	5050	62	F	7.9	305	--	--	52	--	0	92	--	35	--	--	--	37	3.7	
1200	5050	17	C	7.9	317			2.26		.00	1.51		.99		--	--			
6-08		BRIDGEPORT VALLEY																	
04N/24E-13E01		M																	
09/12/73	5050	55	F	6.5	115	--	--	4.2	--	0	62	--	.2	--	--	--	45	0.3	
0915	5050	13	C	7.5	111			.18		.00	1.02		.01		--	--			
05N/24E-25G01		M																	
09/11/73	5050	54	F	6.7	130	--	--	5.7	--	0	74	--	.0	--	--	--	52	0.3	
1545	5050	12	C	7.4	130			.25		.00	1.21		.00		--	--			
05N/25E-28001		M																	
09/12/73	5050	58	F	7.5	310	--	--	22	--	0	152	--	3.8	--	--	--	84	1.0	
0740	5050	14	C	7.8	271			.96		.00	2.49		.11		--	--			
6-67		TRUCKEE VALLEY																	
17N/16E-03R01		M																	
09/18/73	5050	58	F	8.3	175	--	--	6.9	--	0	117	--	.6	--	--	--	79	0.3	
1345	5050	14	C	7.9	173			.30		.00	1.92		.02		--	--			
17N/16E-08M01		M																	
09/13/73	5050	49	F	7.1	130	--	--	3.7	--	0	85	--	.7	--	--	--	60	0.2	
1830	5050	9	C	7.6	130			.16		.00	1.39		.02		--	--			
17N/16E-14F01		M																	
09/18/73	5050	48	F	7.1	150	--	--	4.2	--	0	92	--	4.8	--	--	--	68	0.2	
1315	5050	9	C	7.7	147			.18		.00	1.51		.14		--	--			
17N/16E-16L01		M																	
09/18/73	5050	61	F	6.7	180	--	--	8.7	--	0	55	--	25	--	--	--	63	0.5	
1245	5050	16	C	7.2	175			.38		.00	.90		.71		--	--			

TABLE E-2

MINOR ELEMENT ANALYSIS OF GROUND WATER

State Well Number	Date Sampled	Constituents in Milligrams per Liter*							
		Arsenic	Cadmium	Copper	Iron	Lead	Manganese	Mercury	Zinc
CENTRAL VALLEY REGION 5-00.00									
SIERRA VALLEY 5-12.00									
21N/14E-02H02 M	4-12-73	0.00							
21N/14E-02H M	4-12-73	0.00							
21N/14E-11G M	4-12-73	0.00							
21N/14E-22L01 M	4-11-73	0.00			0.07				
21N/15E-05P M	4-10-73	0.08			1.7T				
21N/15E-06Q M	4-11-73	0.03			9.2T				
21N/15E-12L M	4-12-73	0.00							
22N/14E-25H M	4-12-73	0.04			0.14				
22N/15E-11F01 M	4-11-73	0.04			7.5T				
22N/15E-32F M	4-10-73	0.64			0.05				
SACRAMENTO VALLEY 5-21.00									
SACRAMENTO COUNTY 5-21.08									
10N/03E-35P01 M	10-26-72	<0.002			0.06		<0.005	<0.002	
YOLO COUNTY 5-21.09									
08N/04E-09L01 M	2-09-73	0.00	0.00	0.00	0.16	0.01	0.93		0.29
08N/04E-09L01 M	2-09-73	0.00	0.00	0.00	0.01	0.01	0.90		0.32
08N/04E-09L01 M	2-15-73	0.00	0.00	0.01	0.93	0.04	0.11		0.28
SAN JOAQUIN VALLEY 5-22.00									
SAN JOAQUIN COUNTY 5-22.01									
02S/06E-20K01 M	6-07-73				0.05T		0.14T		
02S/06E-20R01 M	6-07-73				0.05T		0.18T		
02S/06E-20R03 M	6-07-73				0.05T		0.17T		
MISCELLANEOUS AREA 5-80.00									
16N/09E-30J80 M	6-19-73			2.4	0.04				

* Dissolved Constituents except T = Total

Appendix F

WASTE WATER DATA

Appendix F, "Waste Water Data", which appeared in certain volumes of Bulletin No. 130 series, has been discontinued. For information regarding waste water, the reader is referred to the recently reactivated Bulletin No. 68 series: "Inventory of Waste Water Production and Waste Water Reclamation Practices in California".

Please note the data presented in Bulletin No. 68 are on a calendar year basis rather than a water year basis as is the case in Bulletin No. 130.

